Bjørnar Alseth
Ann-Christin Arnås
Henrik Kirkegaard
Mona Røsseland

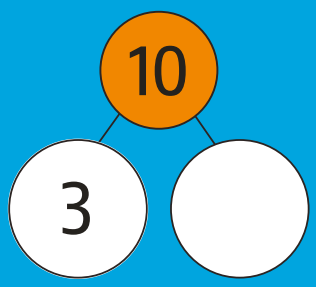
ÅARJELSAEMIEN

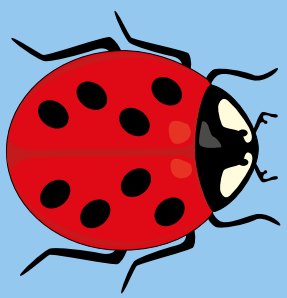
Multi 2. låhkoe

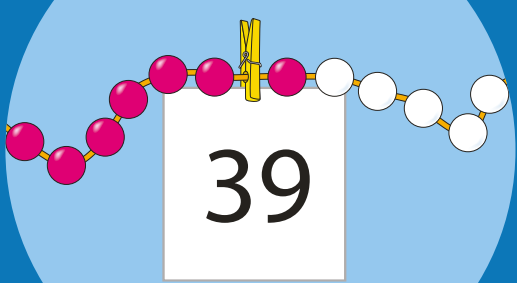
2

LÏEREHTIMMIEGÆRJA

Matematihke
maanadaltesasse







67 + 16 =

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Baakoelæstoe

aarhke ark
aktege-tjengkere enerball
bartele kolonne
bietskeme-kåarhte klippekort
gaske-ryöknedimmie mellomregning
guvvie-boelhke tegnestykke
gåhkoe-mïetestimmie lengdemåling
komma-væhta komma
laavkome-bassenge badebasseng
lego-skaavhtege legokloss
legoskaavhtege-gåhkoe legokloss-lengde
lehkie halvpart
låhkege-tjengkere tierball
nommerdidh nummerere
riektie kode
ryöknedimmie-væhta regnetegn
skaadtje klovn
sohkere-gurreme sukkerspinn
spååreme-snurke sparegris
stååke-ruevtieraajroe leketog

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© ČálliidLágádus – ForfatternesForlag – Authors'Publisher
Pb 140, NO-9735 Kárášjohka-Karasjok
Fanasgieddi, NO-9845 Deatnu-Tana

Gærjabovre gaskeviermesne: www.lagadus.org

Redaktööre Gyldendal: Thor-Atle Refsdal
Redaktööre saemien, ČálliidLágádus: Svein Nordsletta
Design jïh layout, originaale: Anne Tryti
Layout, saemien: Britt Hansen
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© ČálliidLágádus 2017
Originaale reaktoe-aajhtere: Gyldendal Norsk Forlag AS 2006, 2. låhkoe
Gærja dehtie matematihkelearoevierhteste Multi 1-7.
Trygkesovveme: Waasa Graphics Oy, Vaasa
ISBN 978-82-8263-076-4

Bjørnar Alseth • Ann-Christin Arnås • Henrik Kirkegaard • Mona Røsseland

Multi 2. láhkoe

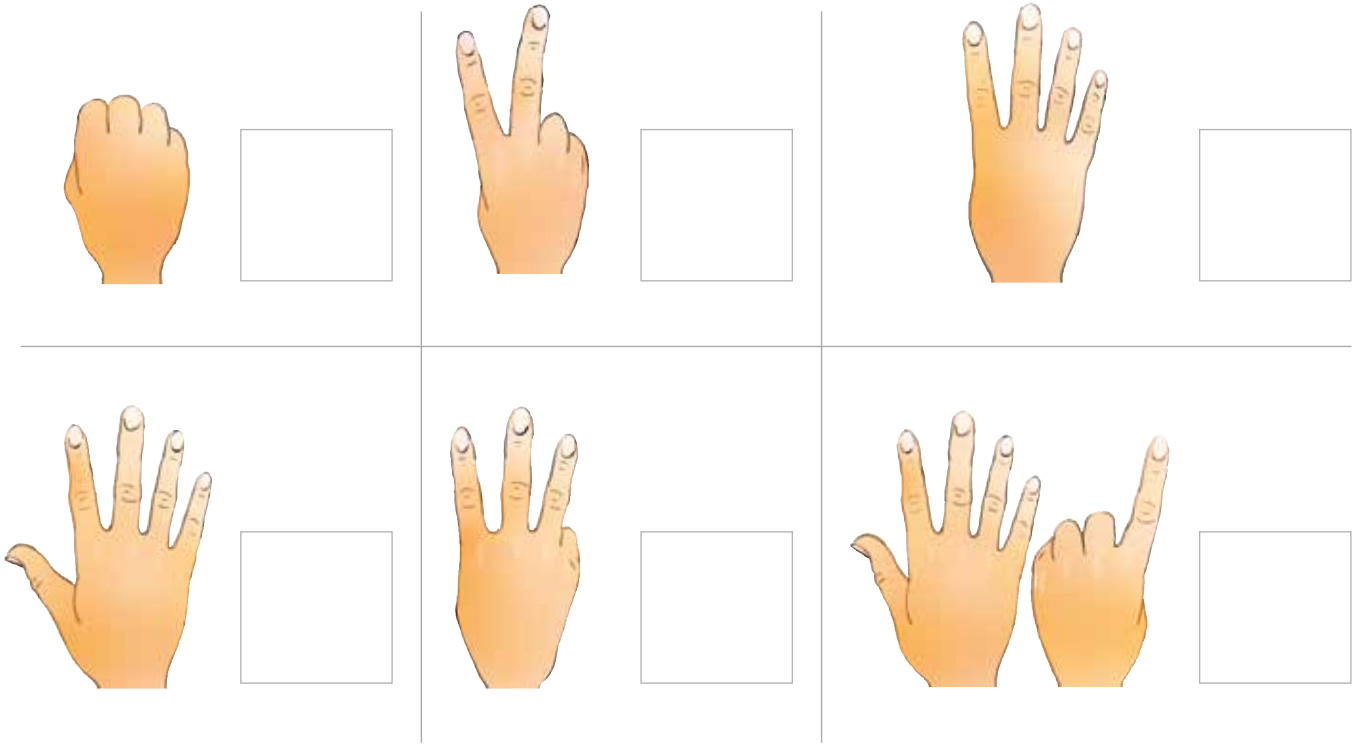
2

LÏEREHTIMMIEGÆRJA

ČálliidLágádus

1 TAALH 0–20

[·] Man gellie soermh?



[··] Man gellie pleajmah?

· Ryöknh man gellie soermh jïh tjaelieh låhkoem. · · Ryöknh man gellie pleajmah jïh tjaelieh låhkoem

[·] Tjaelieh taalide.

1							
2							
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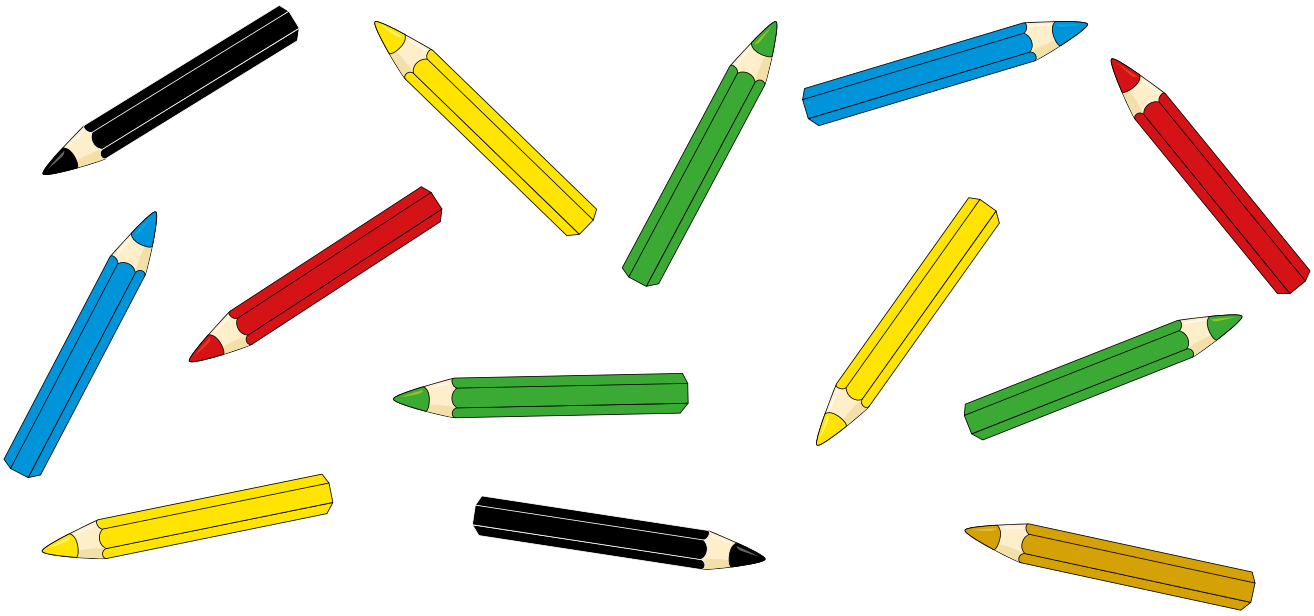
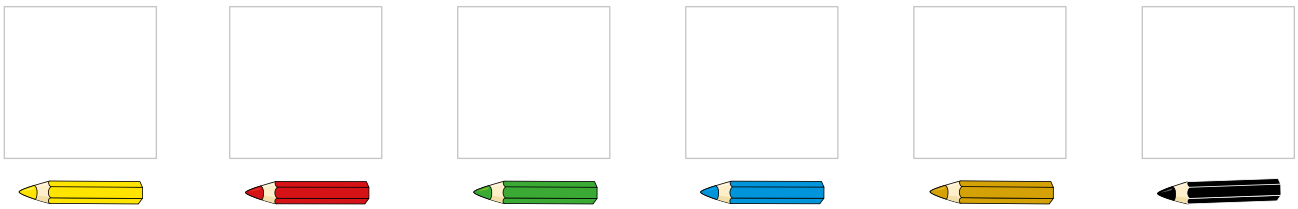


[··] Man gellie?

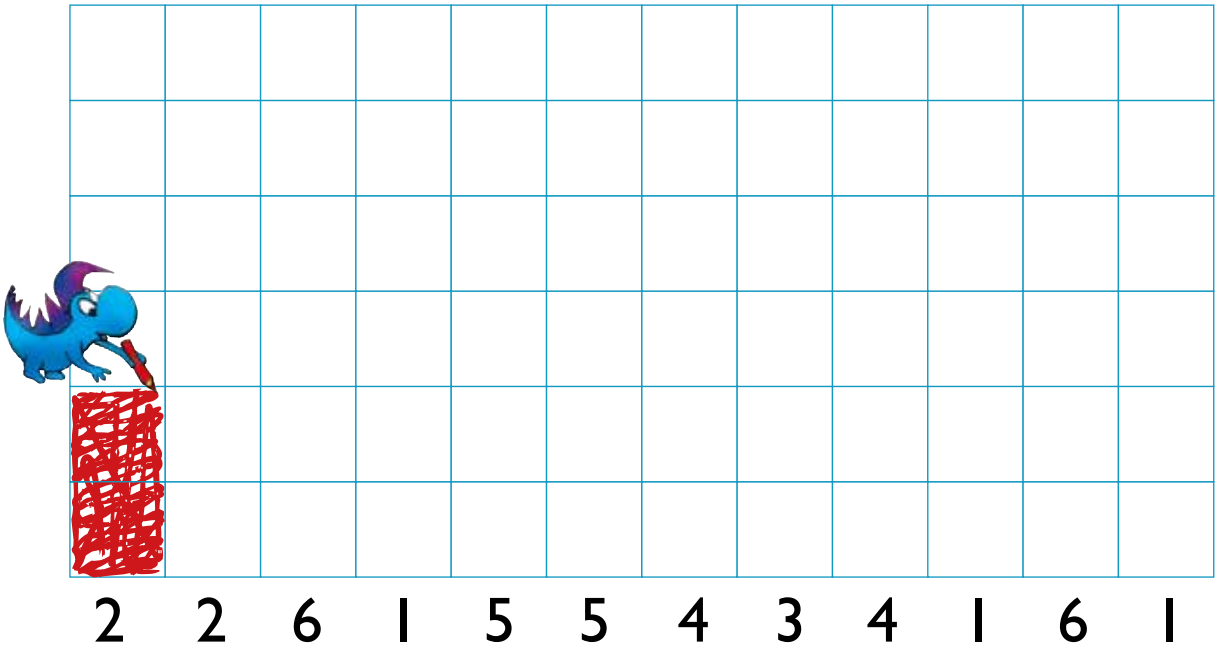


• Tjaelieh taalh. Årroeh vissjeles-laakan fierhten taalen tjaeleme-otnjeginie . •• Ryöknh man gellie plæjjohkh fierhtede klaereste. Tjaelieh låhkoem rovhtide.

[·] Tjaelieh taalide.

5							
5							
6							
6							
7							
7							

[··] Klaeredh rïektes låhkoe rovhth.



2 2 6 1 5 5 4 3 4 1 6 1

·Tjaelieh taalh. Årroeh vïssjeles-laakan fierhten taalen tjaeleme-otnjeginie. ·· Klaeredh dan gellie rovhth fierhtene bartelisnie guktie taale nuelesne vuesehte.

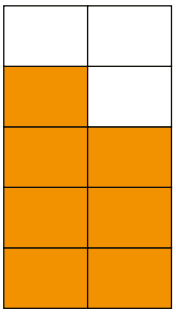
[·] Tjaelieh taalide.

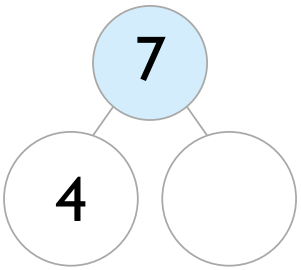
8							
8							
9							
9							
10							
10							

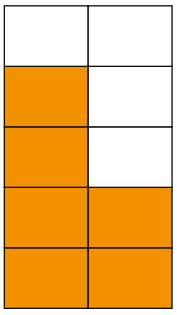
[··] Tjaelieh taalide mah fååtesieh.

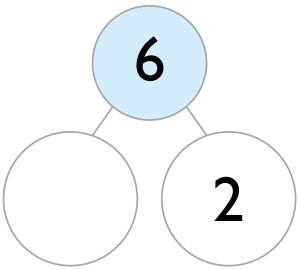
• Tjaelieh taalh. Årroeh vïssjeles-laakan fierhten taalen tjaeleme-otnjeginie. •• Tjaelieh taalide mah taale-bååresisnie fååtesieh.

[·] Tjaelieh taale-voelpide.

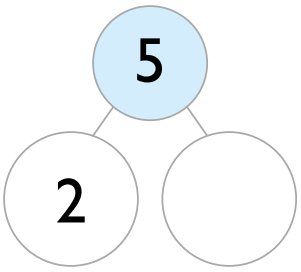


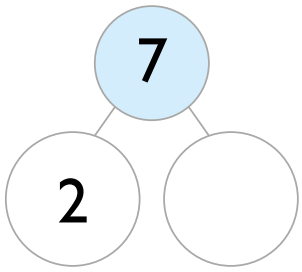


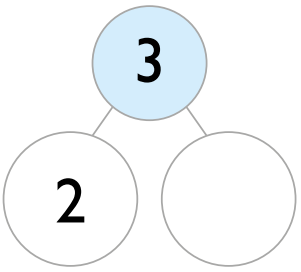


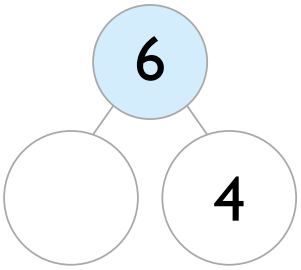


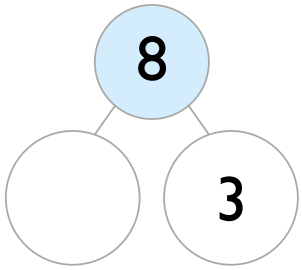
[··] Tjaelieh taale-voelpide.

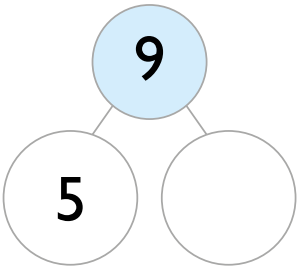


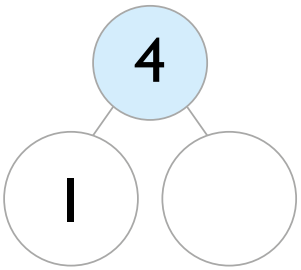


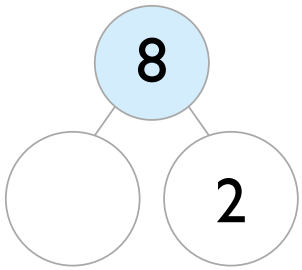


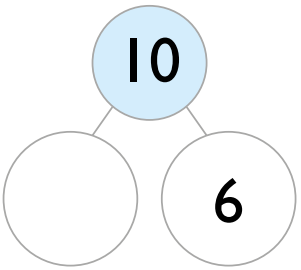




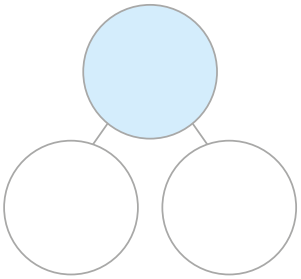


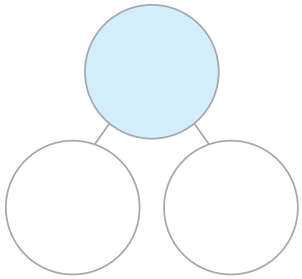


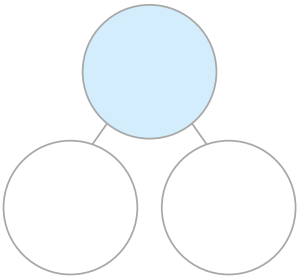




[∴] Veeljh taale-voelpide jïjtje.

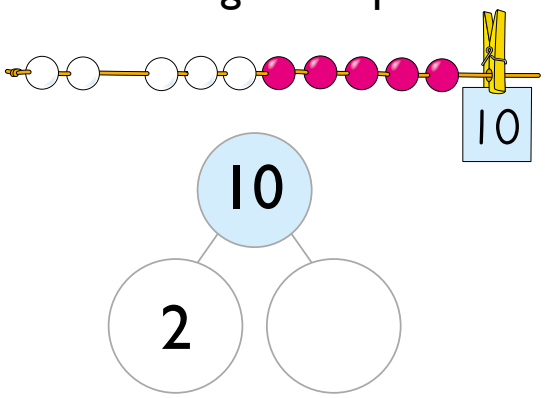


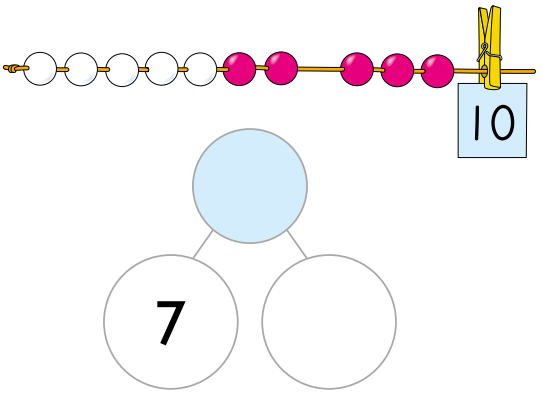


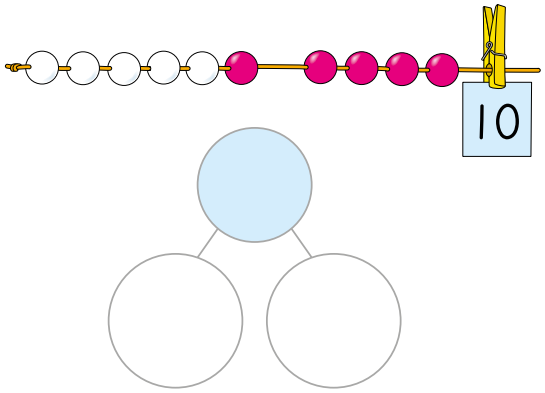


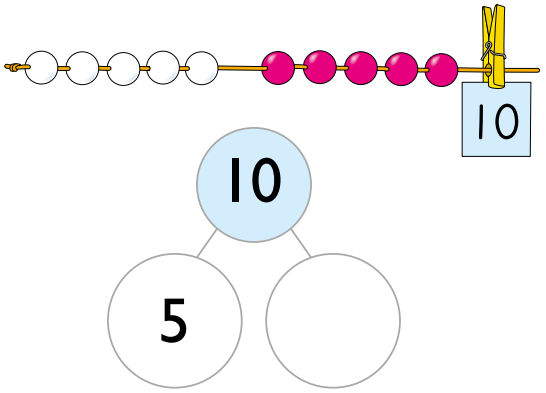
· Tjaelieh taalh gievlide. Dah gårroeh bielien rovhth vuesiehtieh magkaridie taalide edtjh tjaeledh · · Tjaelieh taalh gievlide, guktie dah veelkes gievliej taali tjåenghkie, taale dennie plaave gievlesne sjædta. ∴ Datne taale-voelpide maahtah jïjtje veeljedh. Eah naan vaastoeh edtjh seamma-laakan årrodh.

[·] Gaavnh låhkege-voelpide.

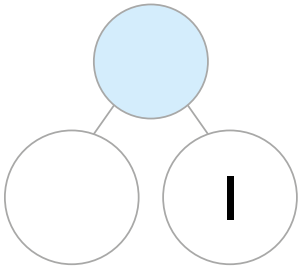


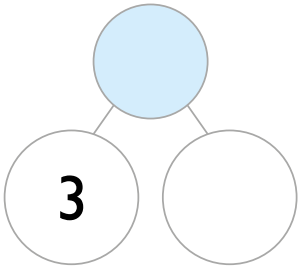


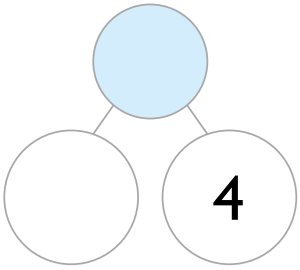




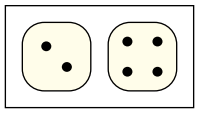
[··] Gaavnh låhkege-voelpide.

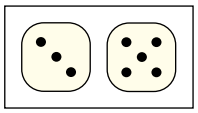


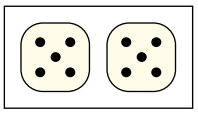


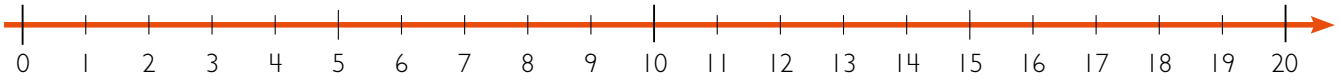


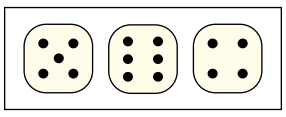
[∴] Darjoeh sïevh taale-sïevese.

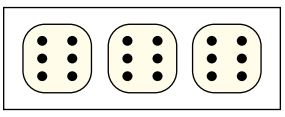






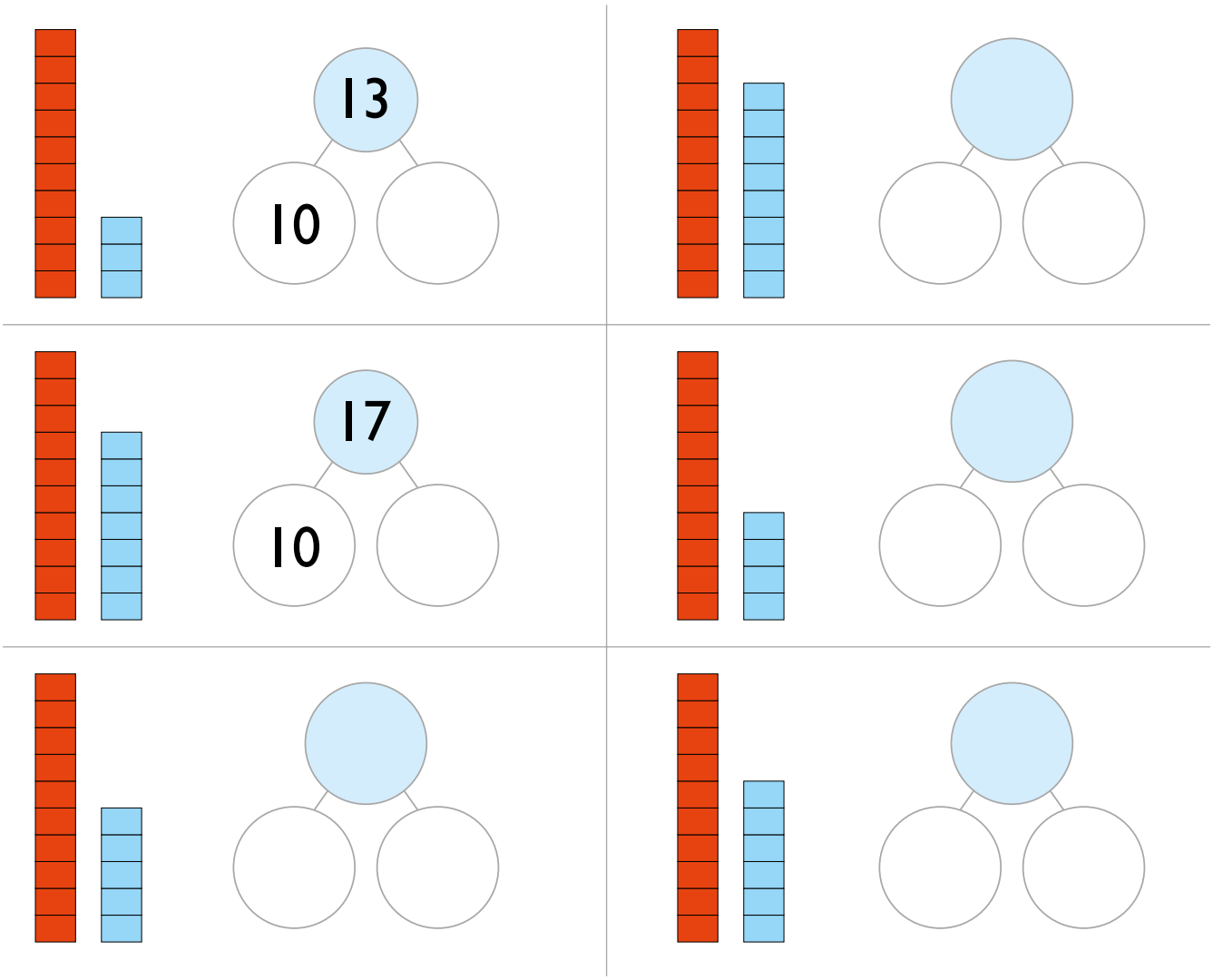




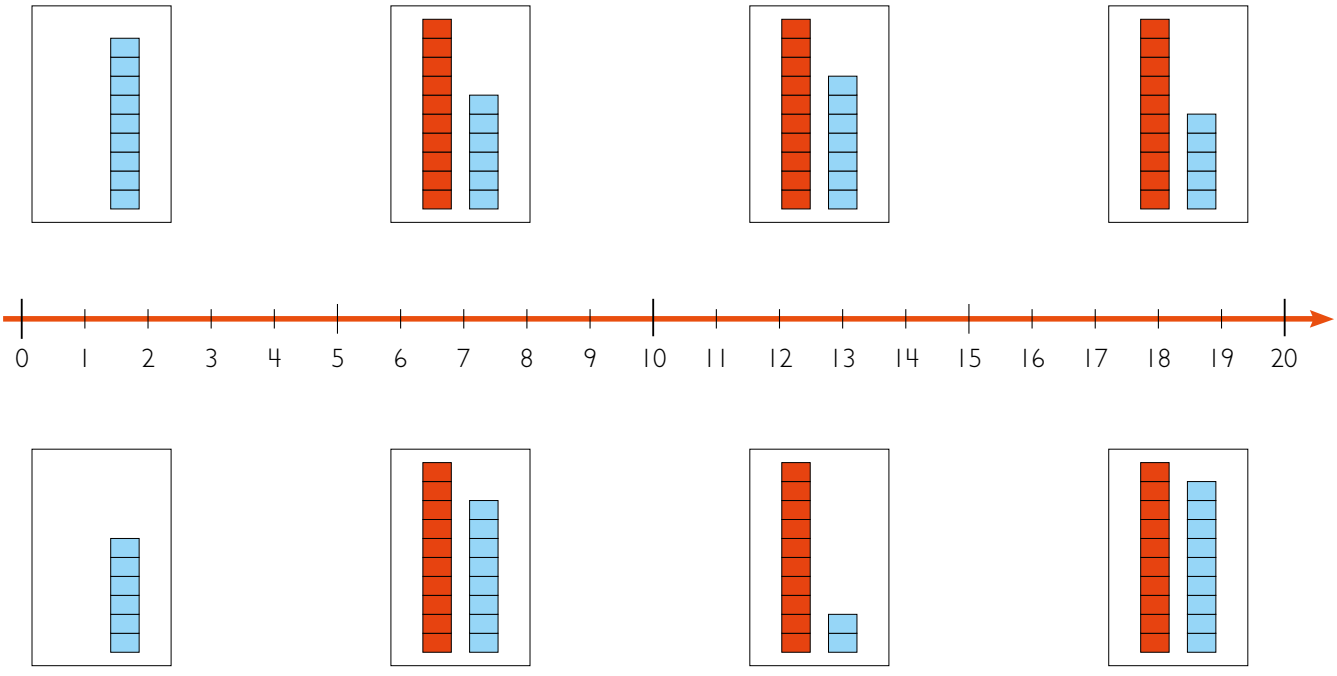


· Tjaelieh låhkege-voelpem gie fååtese. Ryöknh værjosne jis lïerehtimmie geerve. ·· Tjaelieh låhkege-voelpem mij fååtese.
∴ Ryöknh tjelmieh tjelmie-skaavhteginie mah ektesne, jih darjoeh sïevh dan vaastose dennie taale-sïevesne.

[·] Man gellie? Juekieh låhkegi jïh aktegi mietie.

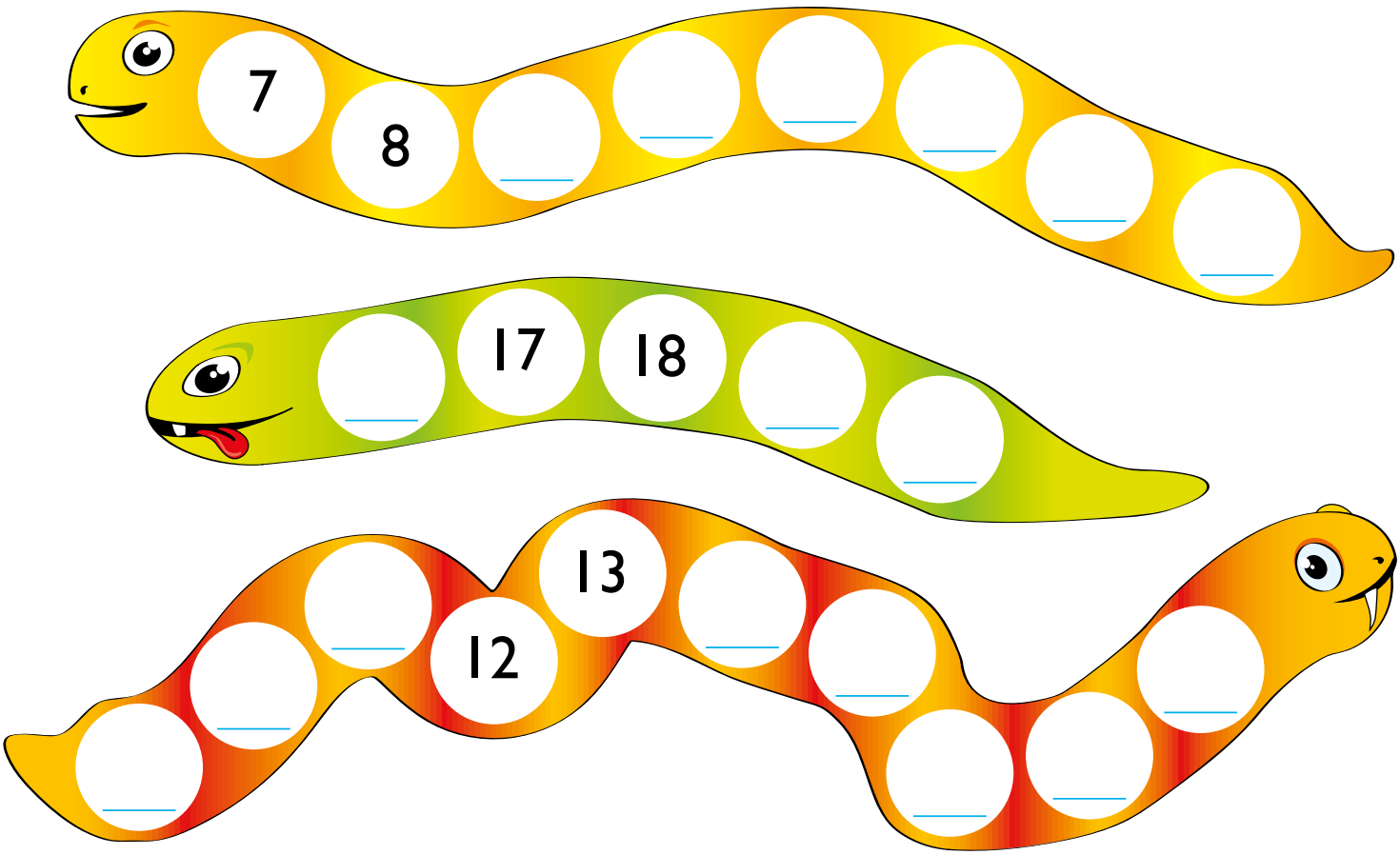


[··] Guvvedh sïevh taale-sïevese.



• Tjaelieh taalh gievlide. Dah gårroeh bielien staagkoeh fierhtene lierehtimmesne vuesiehtieh magkaridie taalide dennie plaave gievlesne edtjh tjaeledh jïh guktie taalide juekedh. • • Ryöknh låhkegh jïh aktegh jïh darjoeh sïevh taale-sïevese.

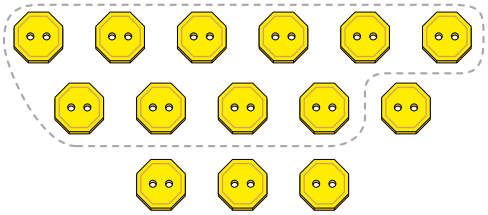
[·] Magkaridie taalide fååtesieh?



[··] Tjaelieh kraanna-taalide.

• IIlh taale-bååresidie. • •Tjaelieh taalem mij akte vaenebe, jih taalem mij akte stuerebe.

[·] Darjoeh låhkegh jïh gaavnh dejtie mubpide taalide.



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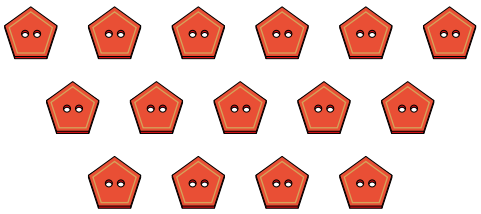
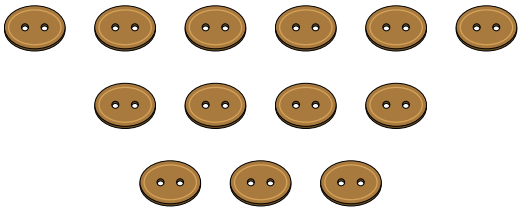
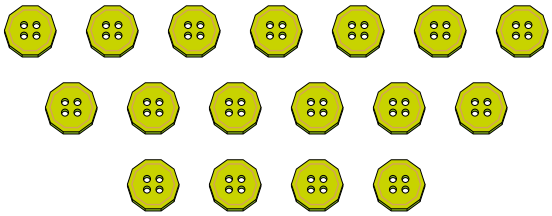


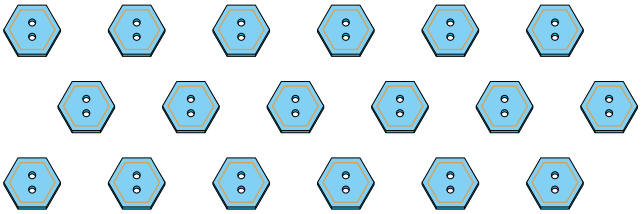
____ = 10 + ____



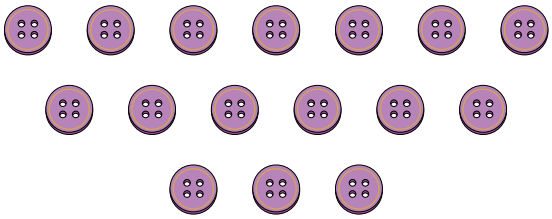
____ = 10 + ____



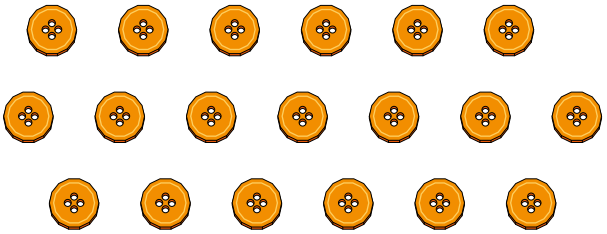
____ = 10 + ____



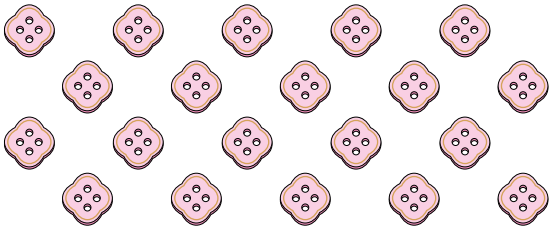
18 = ____ + ____



16 = ____ + ____



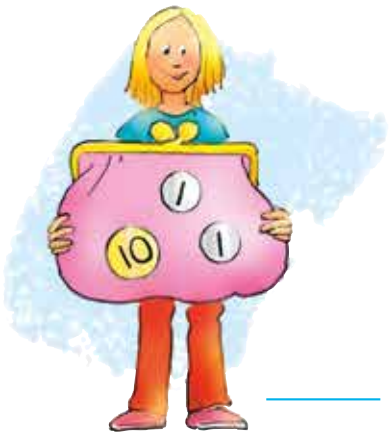
19 = ____ + ___

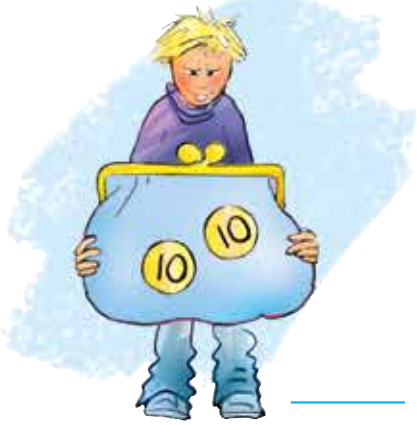


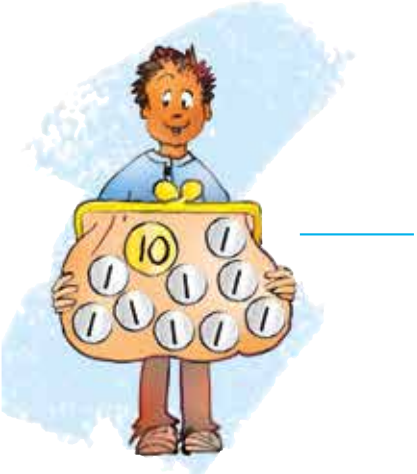
20 = ____ + ____

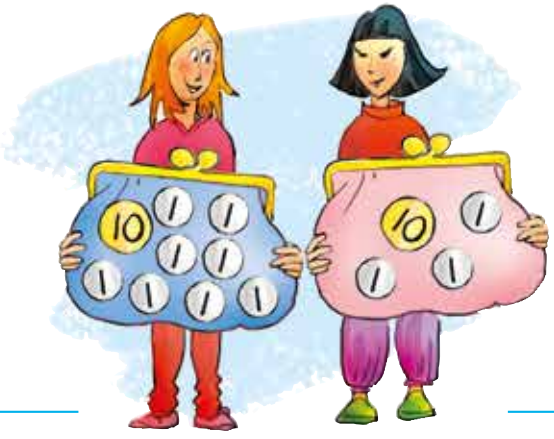
• Gievledh 10 gaevniej bïjre jïh tjaelieh låhkoem låhkaginie jïh dejtie mubpide aktaginie.

[·] Man jeenh beetnegh dej leah?









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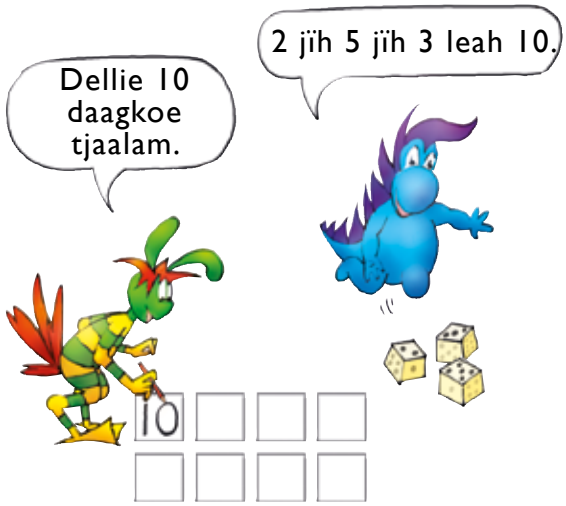
• Man jeenh beetnegh maanaj leah? Ryöknh jïh tjaelieh vaastoem.

[·] Tjetskieh golme tjelmie-skaavhtegh jïh bïejh tjelmide tjåanghkan. Tjaelieh tjåenghkiem akten rovhtese.
Darjoeh dam gaektsien aejkien



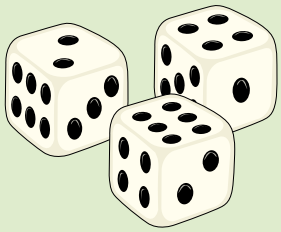
[··] Tjaelieh dejtie gaektsie taalide gaevnjieruktien mietie.

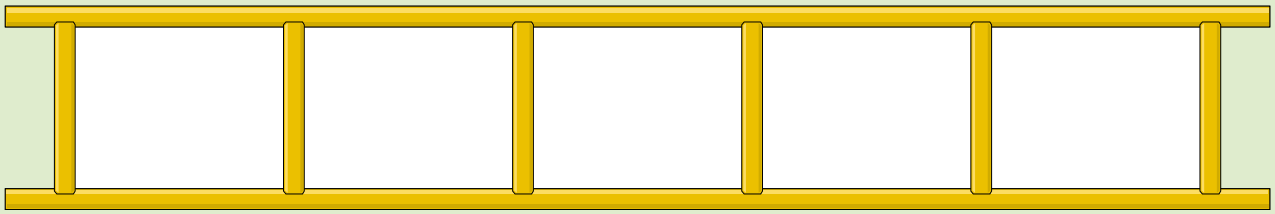
[·∴] SPÏELE

SPÏELE-NJOELKEDASSH

Deerpegh: 3 tjelmie-skaavhtegh.

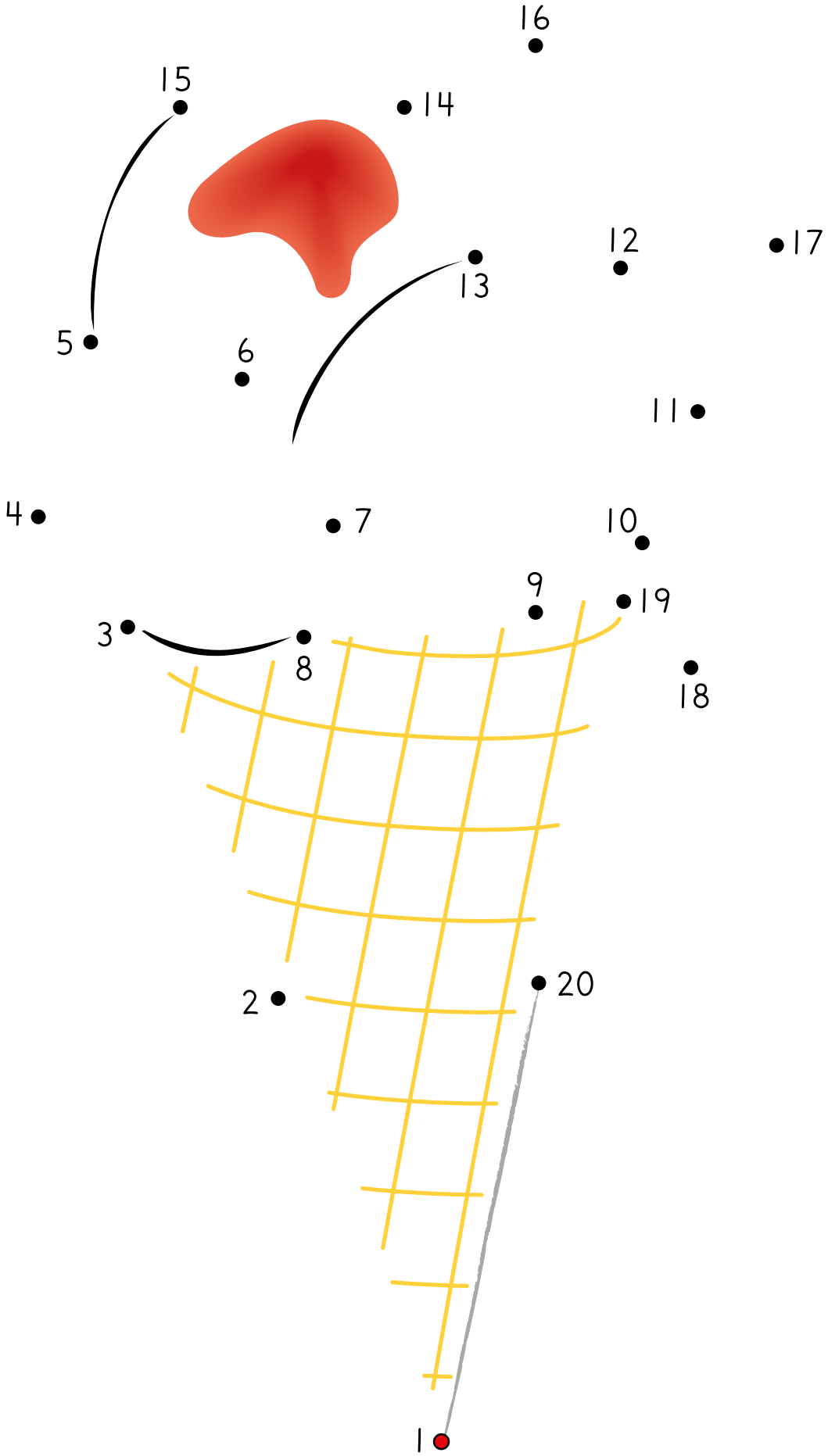
- Tjetskieh tjelmie-skaavhtegidie jïh bïejh tjelmide tjåanghkan.
- Mubpien aejkien gosse dov våaroe, datne seamma-laakan darjoeh.
- Dïhte vitnie gie voestegh vïjhte taalh raajterasse åådtje.





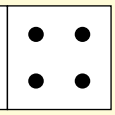
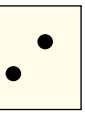
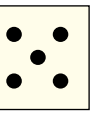
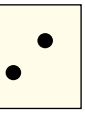
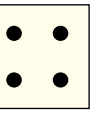
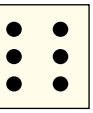
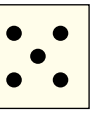
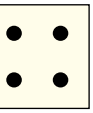
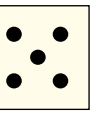
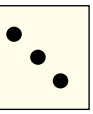
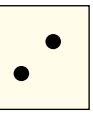
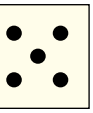
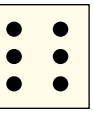
• Bïejh dej golme tjelmie-skaavhtegi tjelmide tjåanghkan jïh tjaelieh tjåenghkiem akten rovhtese. Gïehtelh nemhtie gossege gaajhkh rovhtide deavhteme. •• Tjaelieh taalide lïerehtimmeste guktie gaevnjieruktien mietie tjeevtieh.
∴ Spieleste taali gaevnjie-ruktiem leara.

[·] Darjoeh sïevh trebleste trablan. Aelkieh taalesne 1.

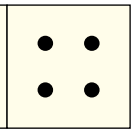
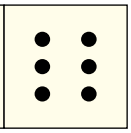
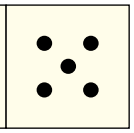


• Darjoeh sïevh taaleste 1 jïh taalese 20.

[·] Man gellie tjåanghkan?

6  **10**	10  _____	10  _____
12 _____	15  _____	13  _____
9  _____	12  _____	14  _____
11  _____	16  _____	19  _____
20 _____	20  _____	21  _____

[··] Veeljh taalh jïh ryöknedh.

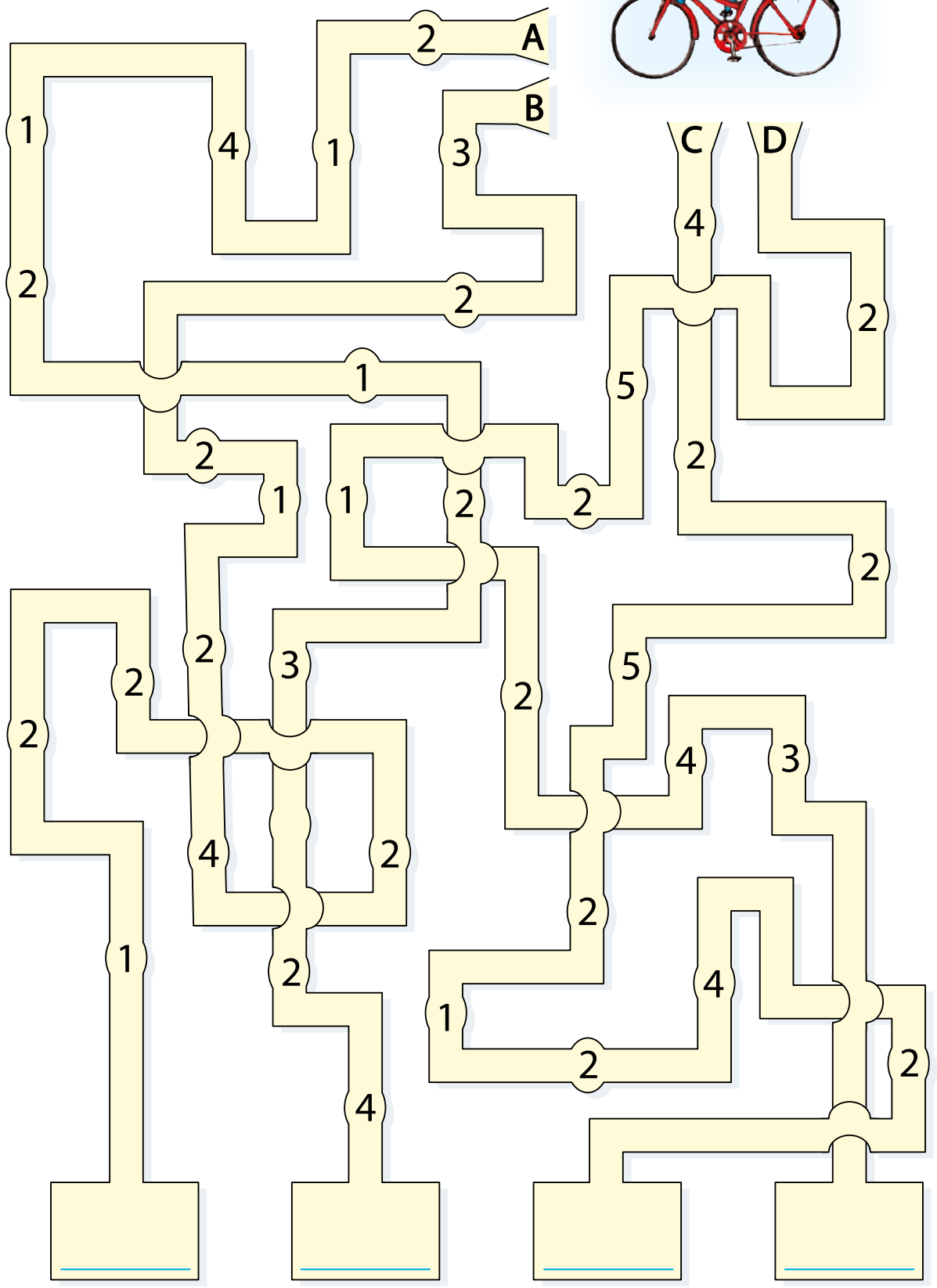
_____  _____	_____  _____	_____  _____

• Bïejh gårroeh bielien taalem tjåanghkan dej åelkies bielien trebliejgujmie fierhtene lïerehtimmesne.

•• Veeljh gårroeh bielien taalem jïjtje, bïejh tjåanghkan dej trebliejgujmie jïh tjaelieh vaastoem.

[·] Mij geajnojde guhkemes?

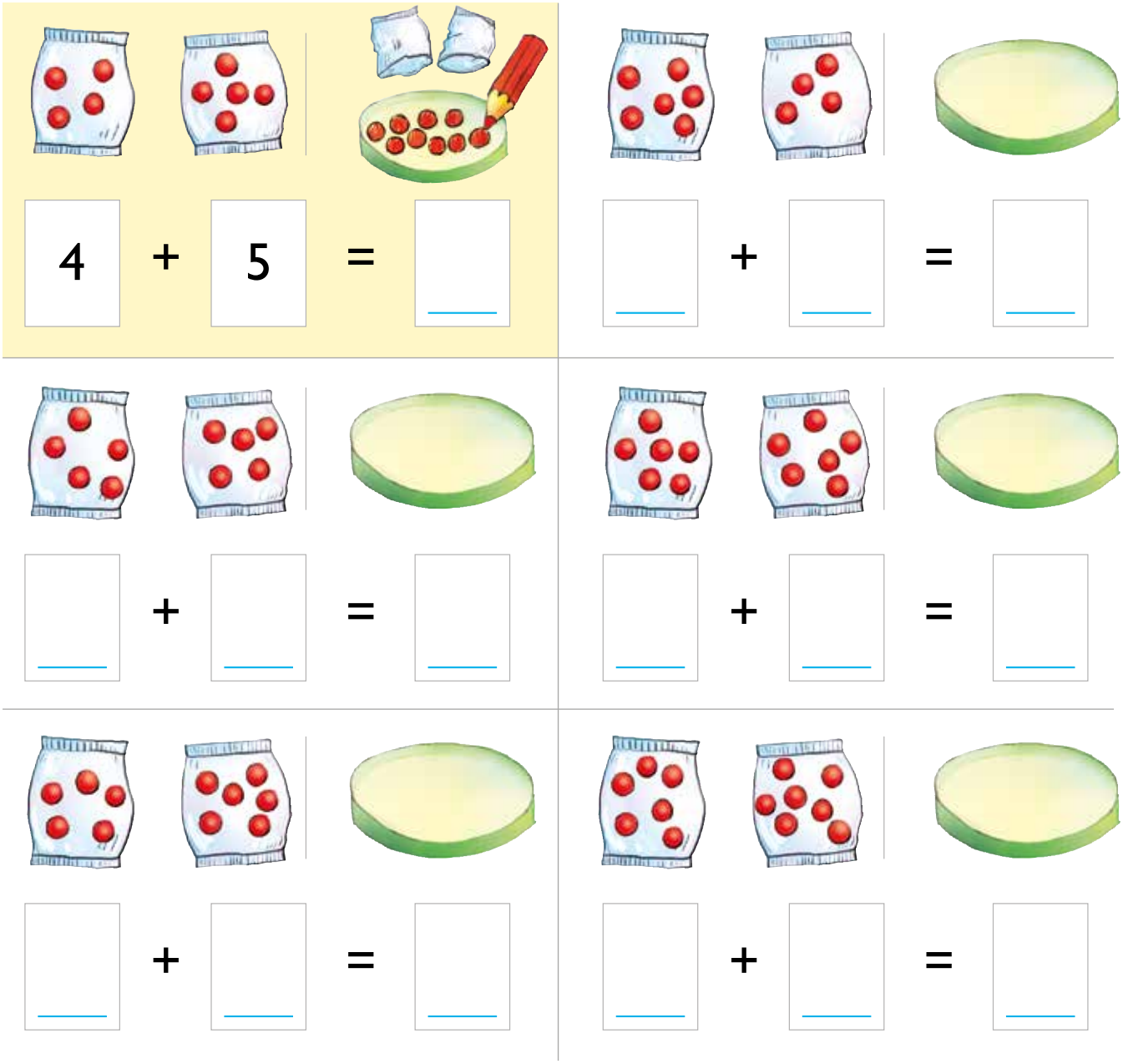
Bïejh geajnoej taalide tjåanghkan.



• Dåeredh geajnojde baakojste måålese. Bïejh gaajhkide taalide tjåanghkan mej baaktoe mïnnh, jïh tjaelieh vaastoem minngemes njieljien-bortegasse.

2 PLUSSE JÏH MIJNUSE TAALIGUJMIE TAALESE 20

[·] Man gellie tjåanghkan?

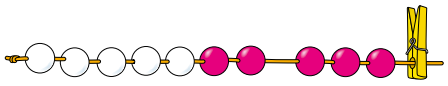


[··] Ryöknedh.

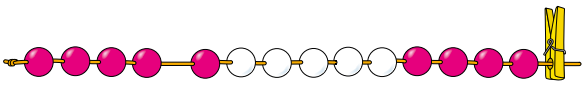
3 + 2 = ____	3 + 7 = ____	5 + 5 = ____
5 + 3 = ____	8 + 2 = ____	9 + 1 = ____
1 + 7 = ____	4 + 5 = ____	3 + 8 = ____

· Gaavnh man gellie gåahtah passine. Guvvedh gåahtide dan gåaroes gaaran jïh tjaelieh taalide rovhtide.
·· Ryöknedh jïh tjaelieh vaastoem.

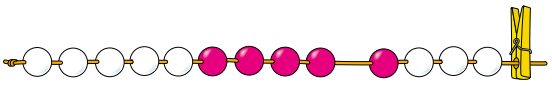
[·] Man gellie?



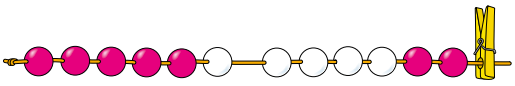
7 + ____ = 10



____ + ____ = ____

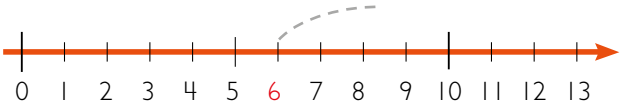


____ + ____ = ____

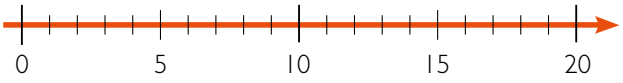


____ + ____ = ____

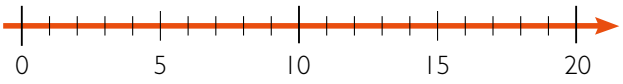
[··] Ryöknedh.



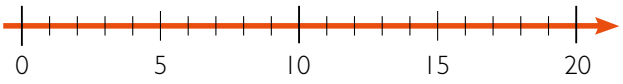
6 + 5 = ____



7 + 9 = ____

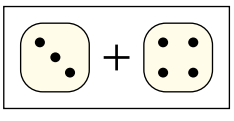


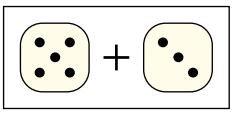
8 + 11 = ____

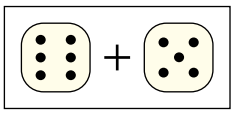


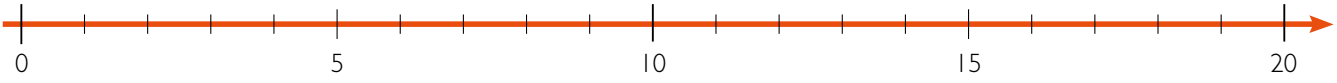
11 + 6 = ____

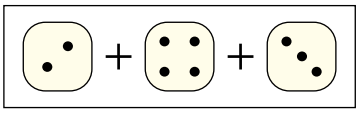
[∴] Darjoeh sïevh taale-sïevese.

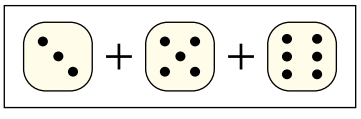






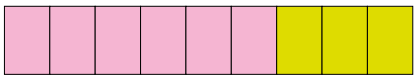




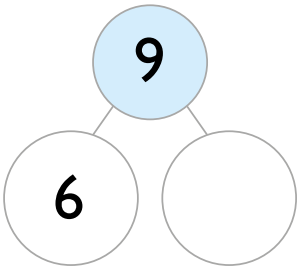


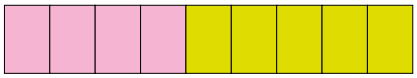
· Tjaelieh ryökneme-boelhkem maam værjosne vuajnah jïh gaavnh vaastoem. ·· Vuesehth ryökneme-boelhkem gåevine taale-sïevesne. Tjaelieh vaastoem vaastoe-sïevese. ∴ Bïejh tjelmie-skaavhtegen tjelmide tjåanghkan jïh guvvedh vaastoem taale-sïevese.

[·] Mij taalide fååtesieh?

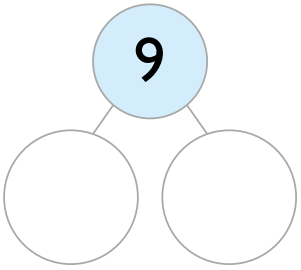


9 = 6 + ____

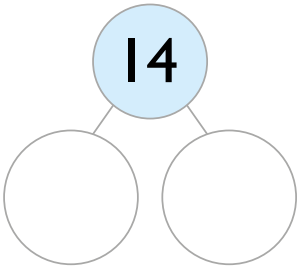


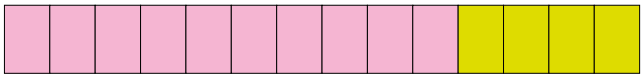


9 = ____ + ____

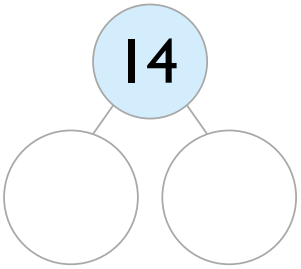


14 = ____ + ____

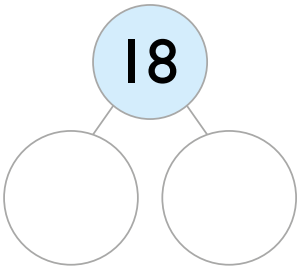




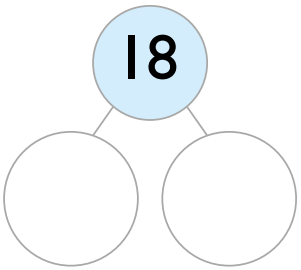
14 = ____ + ____



18 = ____ + ____

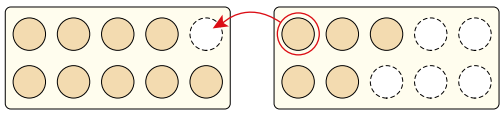


18 = ____ + ____



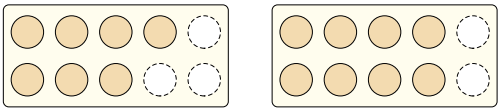
• Dievhtieh taalide mah fååtesieh dovne gievline jïh sïevine juktie ryökneme-boelhke staaran sjædta. Staagkoeh vuesiehtieh guktie fierhten taale dehtie mubpeste joekehtadta.

[·] Darjoeh låhkegem jïh ryöknedh.



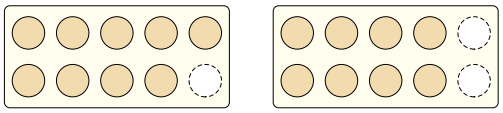
9 + 5 =

10 + 4 = ____



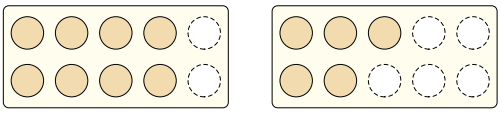
7 + 8 =

10 + ____ = ____



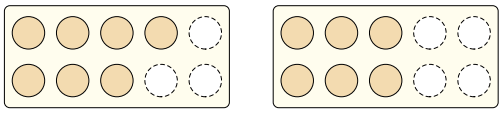
9 + 8 =

10 + ____ = ____



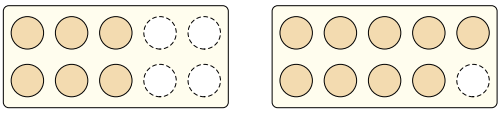
8 + 5 =

10 + ____ = ____



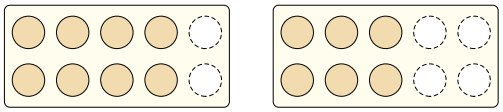
7 + 6 =

____ + ____ = ____



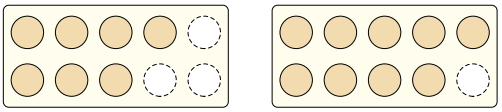
6 + 9 =

____ + ____ = ____



8 + 6 =

____ + ____ = ____



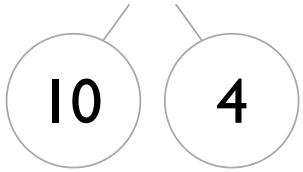
7 + 9 =

____ + ____ = ____

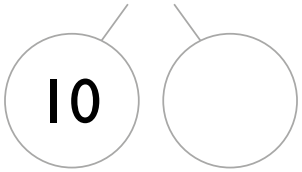
Juekieh aktem dejstie taalijste ryökneme-boelhkesne guktie låhkegem buektedh. Maahtah njoeligujmie vuesiehtidh guktie juakeme dej tjåahtjine mejtie jåhteme. Ryöknedh vaastoem.

[·] Juekieh låhkegi jïh aktegi mietie. Ryöknedh.

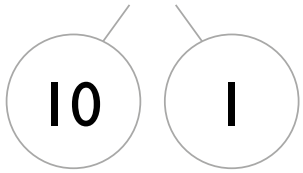
14 + 5 = ____



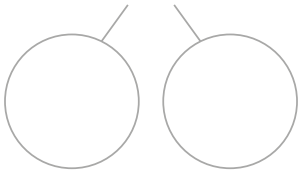
15 + 3 = ____



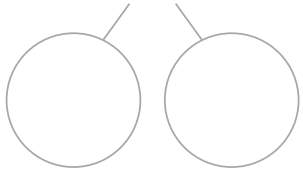
11 + 6 = ____



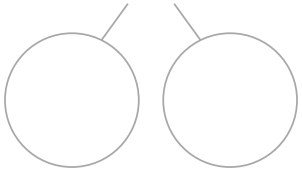
12 + 7 = ____



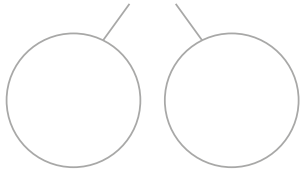
13 + 3 = ____



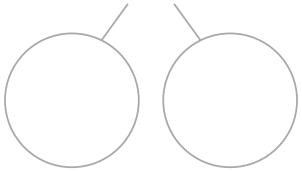
16 + 3 = ____



12 + 4 = ____



13 + 2 = ____



[··] Ryöknedh.

11 + 5 = ____

13 + 4 = ____

17 + 3 = ____

12 + 5 = ____

17 + 2 = ____

15 + 4 = ____

18 + 2 = ____

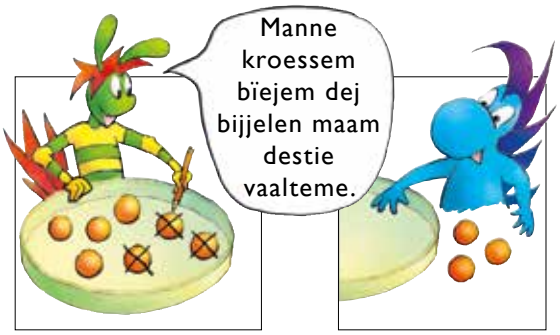
16 + 5 = ____

19 + 4 = ____

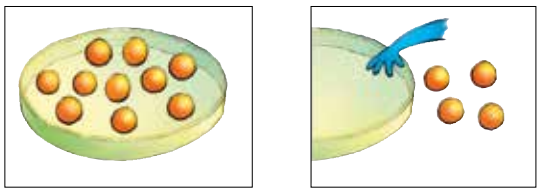
• Juekieh göökte-siffere taalem akten låhkagasse jïh dejtie mubpide aktagidie. Ryöknedh jïh tjaelieh vaastoem.

•• Ryöknedh jïh tjaelieh vaastoem.

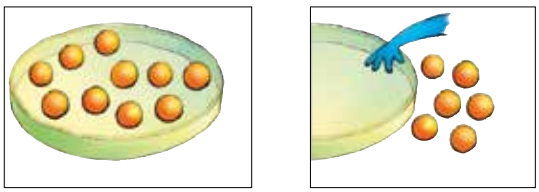
[·] Man gellie aajmojne?



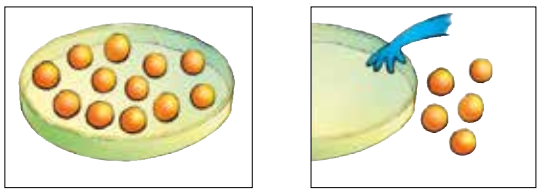
7 – 3 = ____



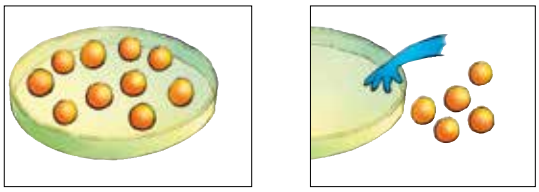
____ – ____ = ____



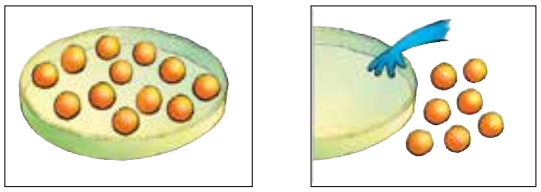
____ – ____ = ____



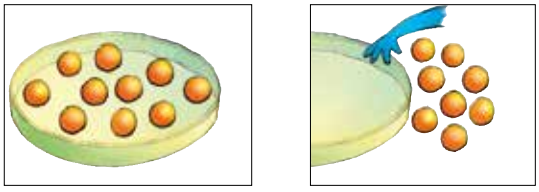
____ – ____ = ____



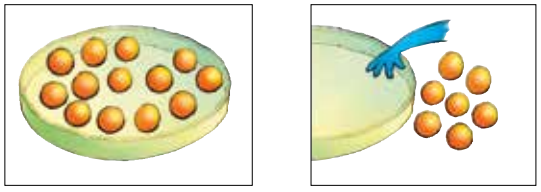
____ – ____ = ____



____ – ____ = ____



____ – ____ = ____



____ – ____ = ____

[··] Ryöknedh.

7 – 2 = ____

8 – 4 = ____

5 – 3 = ____

9 – 6 = ____

4 – 3 = ____

6 – 4 = ____

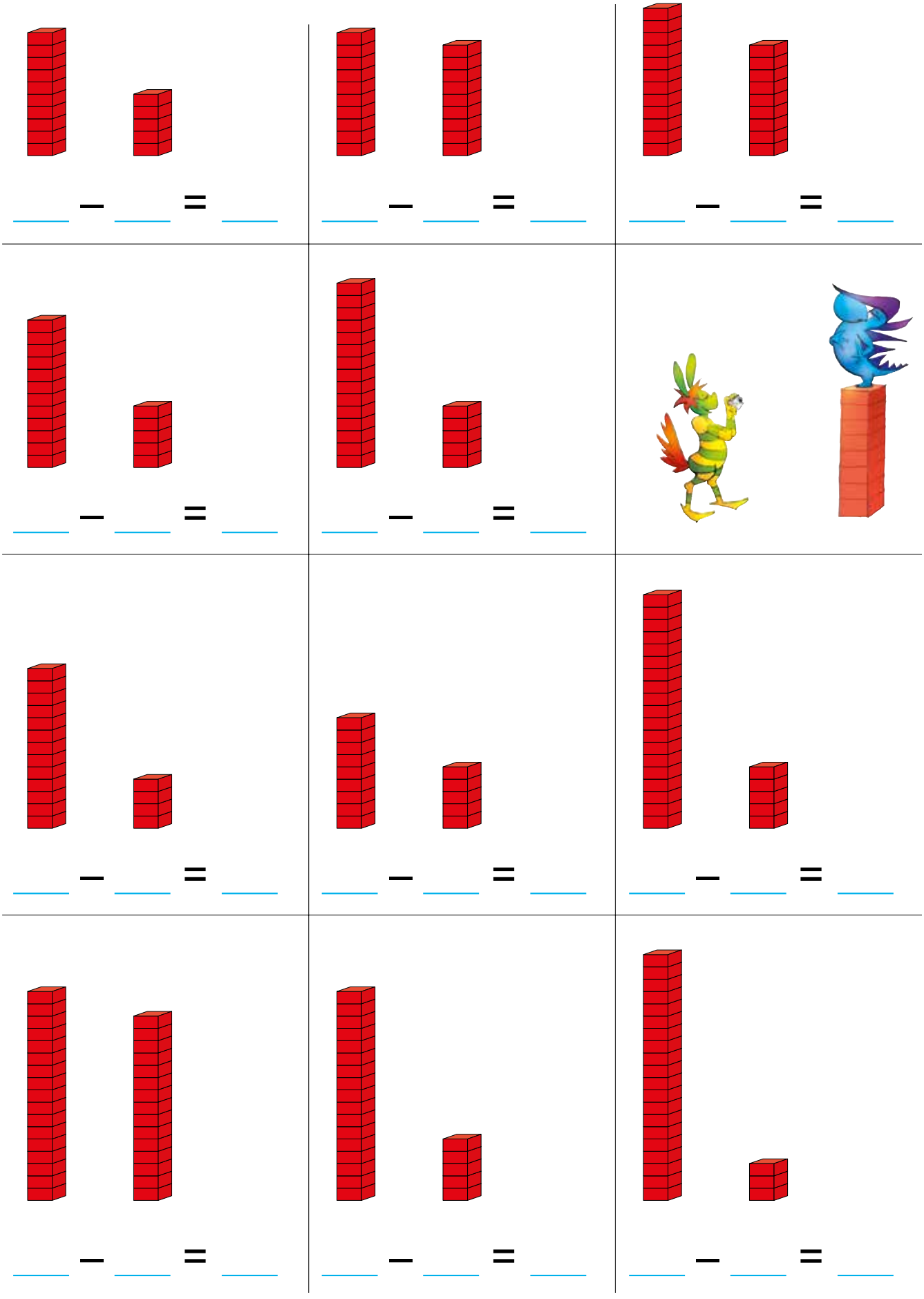
5 – 4 = ____

7 – 5 = ____

8 – 5 = ____

· Gaavnh man gellie aajmojne gosse kroessem dej bijjelen bïejh maam destie vaalteme. Tjaelieh dovne guvvie-boelhkem jïh vaastoem. ·· Ryöknedh jïh tjaelieh vaastoem.

Mij joekehtasse?



• Ryöknh skaavhtegidie fierhtene tåarnesne, tjaelieh låhkoem jïh tjaelieh joekehtassem dej gaskem.

Mij joekehtasse?

____ – ____ = ____

____ – ____ = ____

____ – ____ = ____

____ – ____ = ____

____ – ____ = ____

____ – ____ = ____

____ – ____ = ____

____ – ____ = ____

____ – ____ = ____

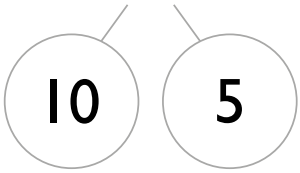
____ – ____ = ____

____ – ____ = ____

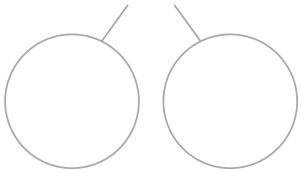
• Gaavnh kråvnaj tjåenghkiem fierhtene tjïertesne jïh gaavnh joekehtassem dej göökte tjåenghkiej gaskem.

[·] Juekieh låhkegi jïh aktegi mietie. Ryöknedh.

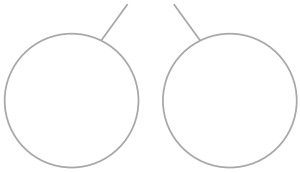
15 – 4 = ____



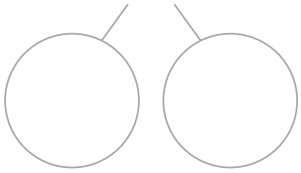
19 – 6 = ____



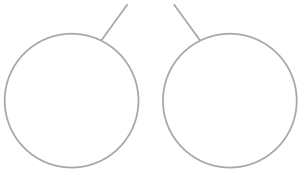
14 – 2 = ____



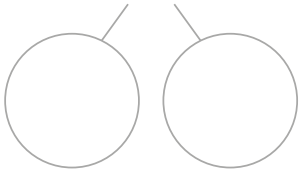
17 – 4 = ____



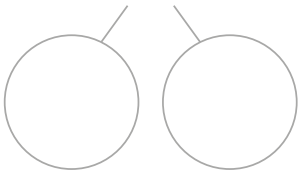
16 – 4 = ____



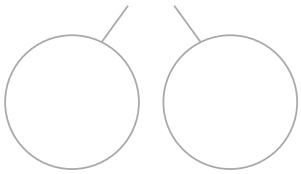
19 – 7 = ____



13 – 2 = ____



18 – 6 = ____



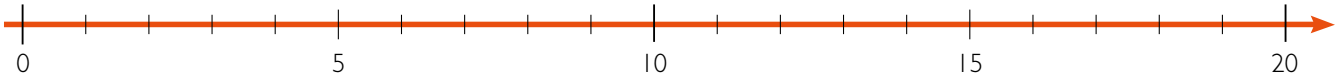
[··] Ryöknedh.

15 – 5 = ____
16 – 2 = ____
18 – 5 = ____
17 – 6 = ____

19 – 6 = ____
18 – 8 = ____
19 – 5 = ____
17 – 5 = ____

20 – 10 = ____
20 – 5 = ____
20 – 7 = ____
20 – 11 = ____

• Juekieh dejtie göökte-siffere taalide akten låhkagasse jïh dejtie mubpide aktagidie aerebe vaastojde ryöknedh.
•• Ryöknedh vaastojde.

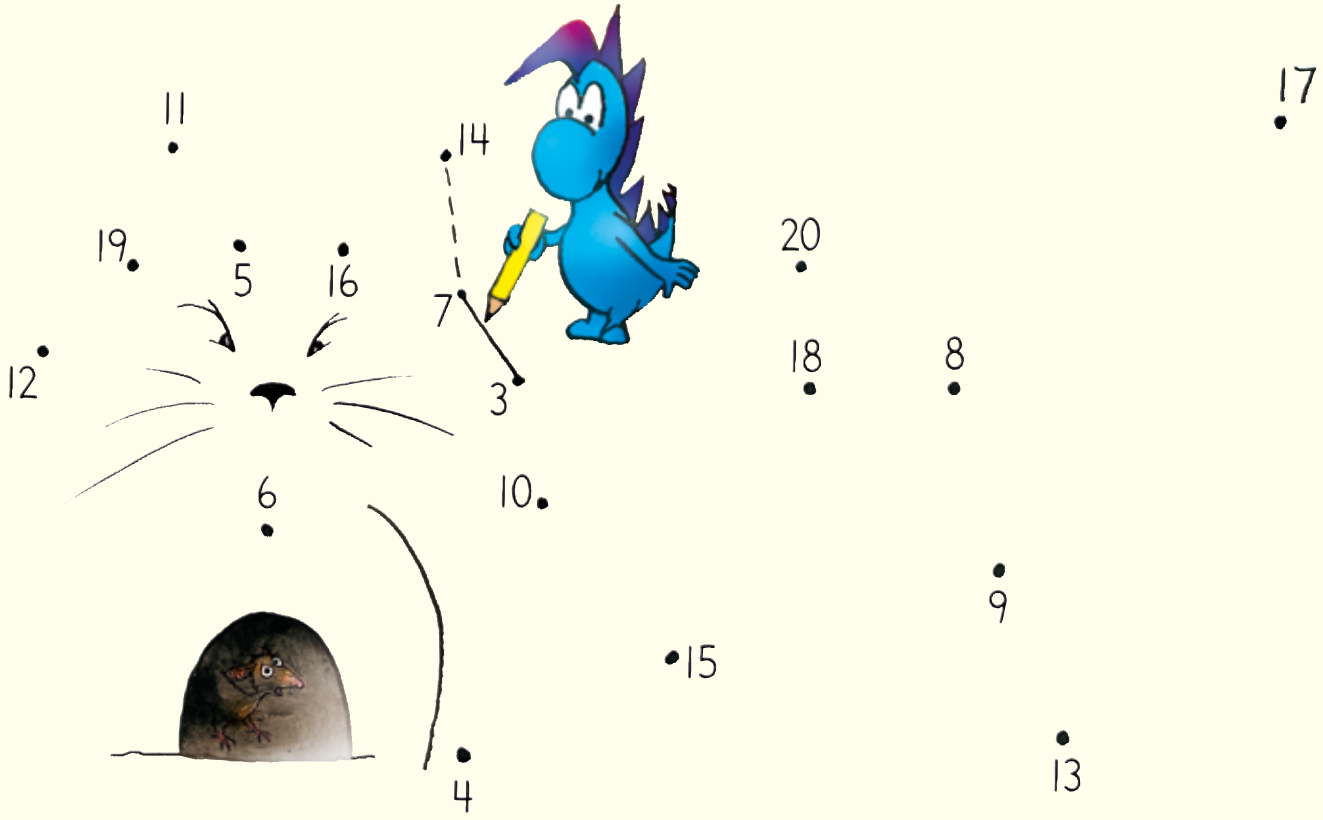


[·] Ryöknedh, jïh darjoeh guvviem.

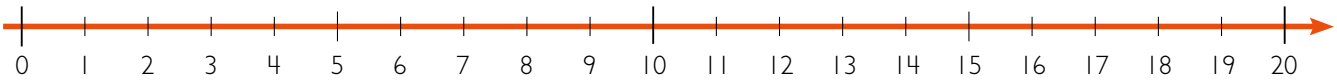
2 + 1	5 + 2	10 + 4	13 + 3	4 + 1	5 + 6
3 →	7 →	14 →	→	→	→

7 + 2	5 + 3	15 + 5	3 + 3	8 + 4	14 + 5
←	←	←	←	←	←

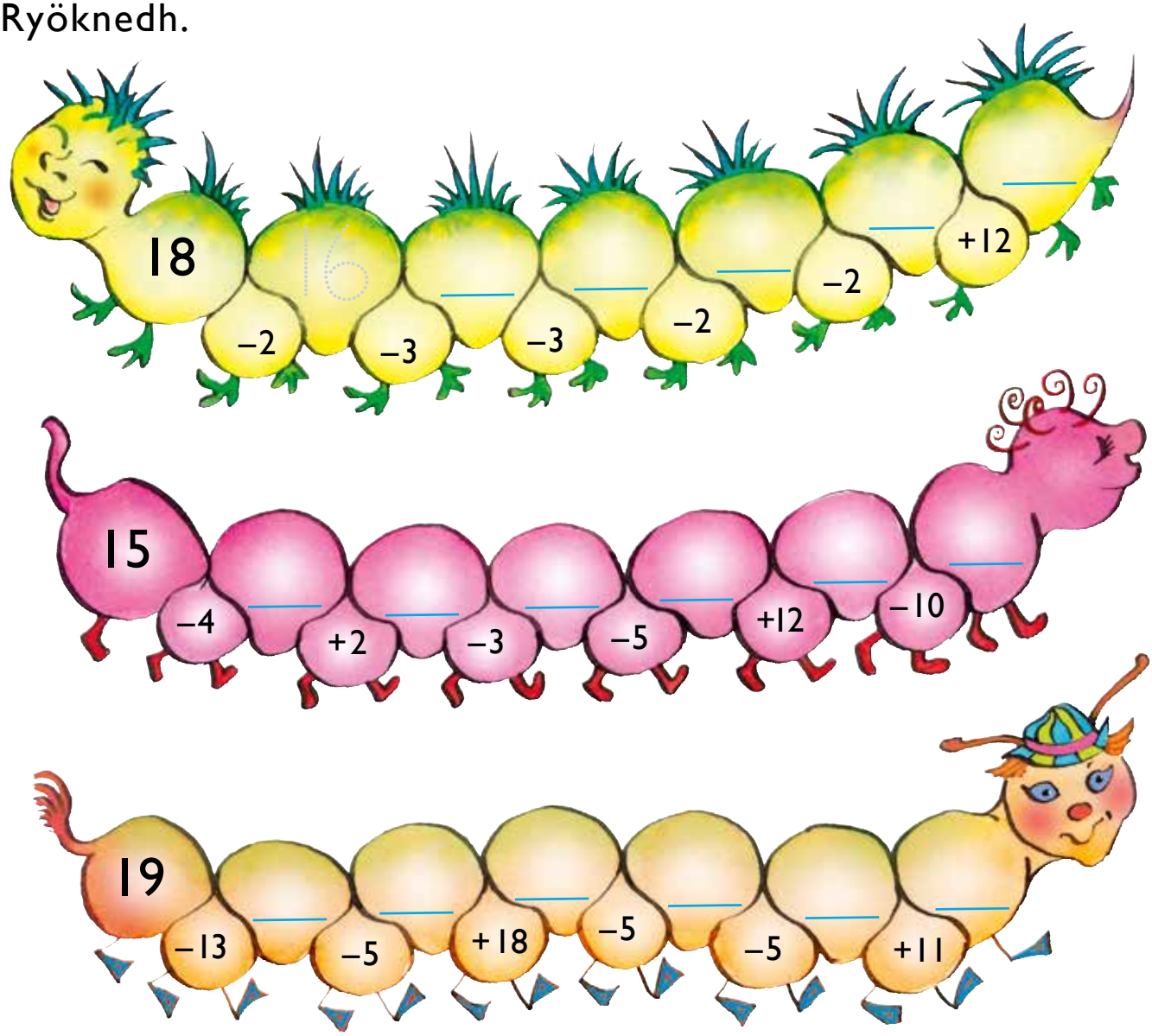
11 + 6	6 + 7	2 + 2	8 + 7	6 + 4	9 + 9
→	→	→	→	→	→



· Ryöknedh ryökneme-boelhki vaastojde jïh tjaelieh rovhtide fierhten ryökneme-boelhken nuelesne. Ryökneme-boelhki vaastoe gaevnjieruktien taalide nænnoste sïevese-sïevese-gåvvan.



[·] Ryöknedh.



[··] Ryöknedh.

16 – 2 = ____	15 – 5 = ____	18 – 6 = ____
14 + 3 = ____	11 + 8 = ____	12 + 6 = ____
12 + 5 = ____	11 – 7 = ____	13 + 7 = ____

• Aelkieh gårroeh bielien taaligujmie. Bïejh jallh tramhkelh taalijste dej smaave lïhtseginie. Tjaelieh vaastojde dejtie mubpide stoere lïhtsegidie. •• Ryöknedh vaastojde.

[·] Tjaelieh + jïh –

6 ☐ 2 ☐ 2 = 6

3 ☐ 4 ☐ 1 = 8

10 ☐ 2 ☐ 4 = 4

4 ☐ 4 ☐ 1 = 7

8 ☐ 6 ☐ 3 = 5

3 ☐ 2 ☐ 6 = 7

14 ☐ 4 ☐ 2 = 8

12 ☐ 2 ☐ 4 = 18

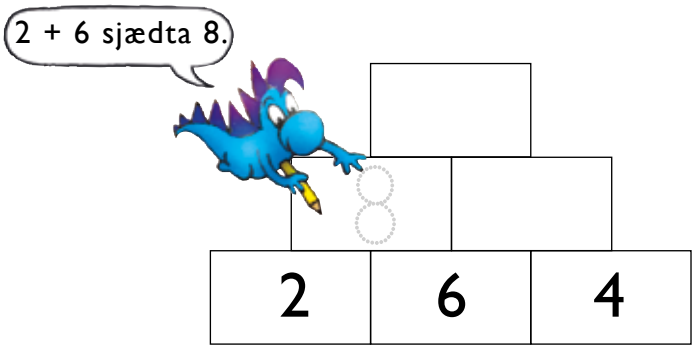
10 ☐ 10 ☐ 5 = 15

20 ☐ 10 ☐ 2 = 12

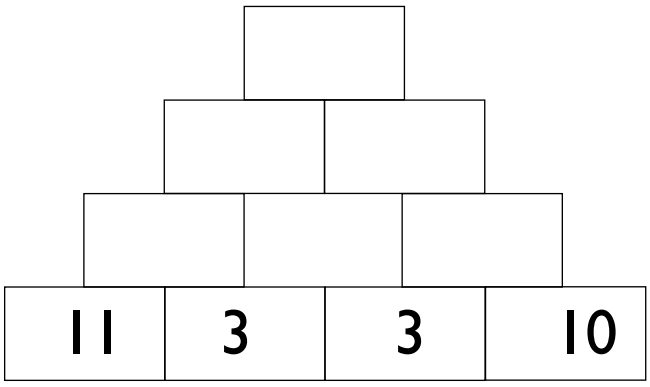
18 ☐ 6 ☐ 2 = 14

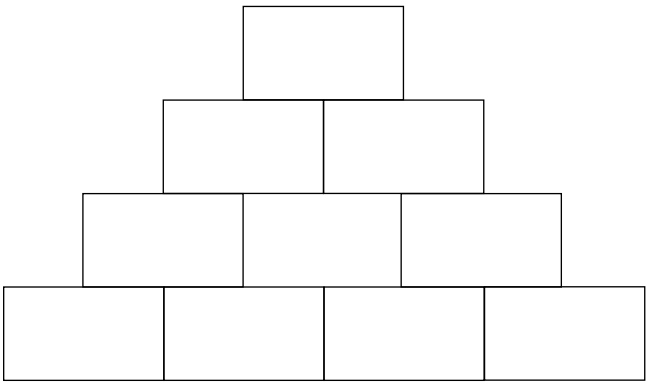
8 ☐ 10 ☐ 2 = 20

[··] Gaavnh dah gåaroes rovhti taalide.



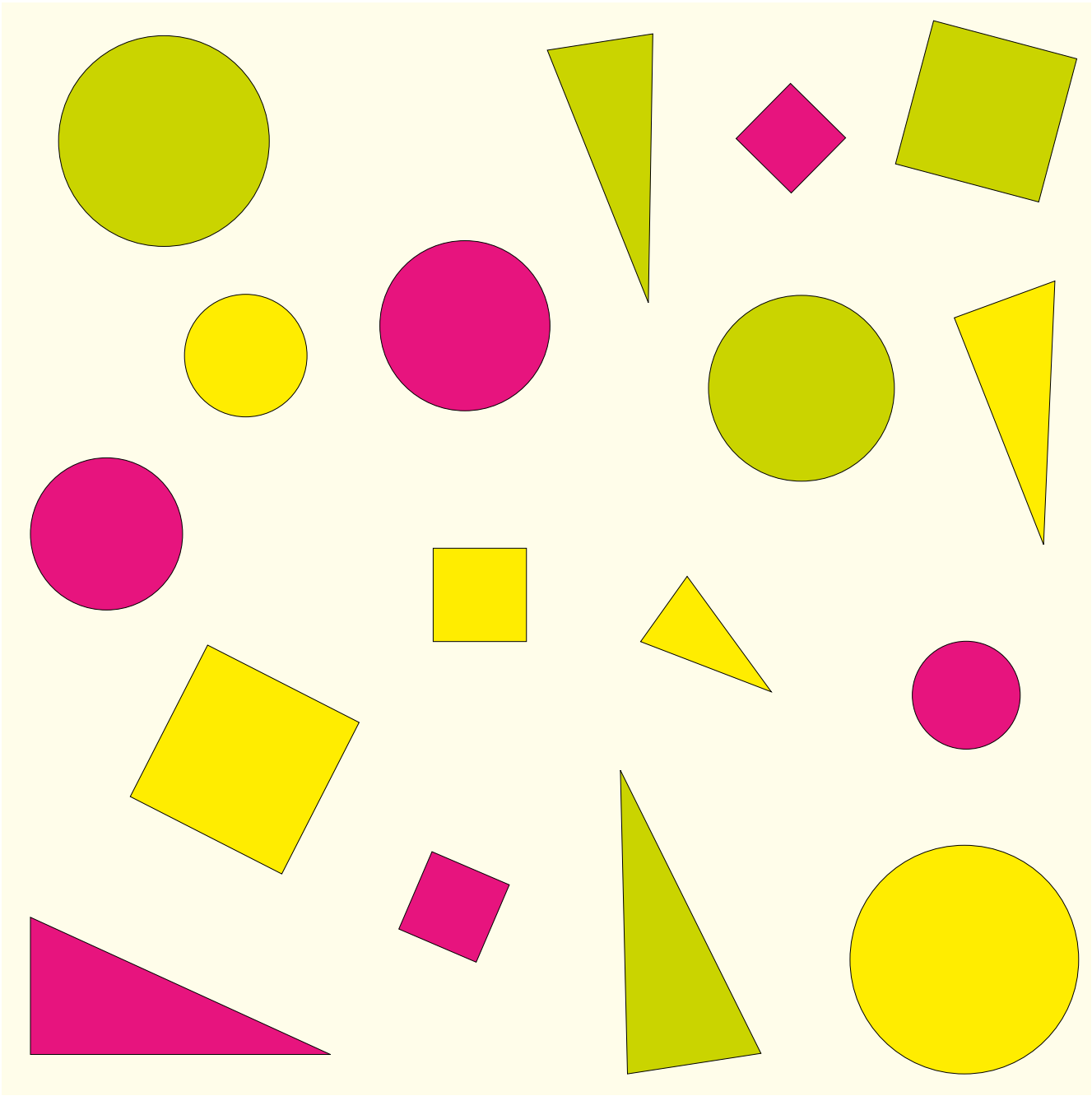
Veeljh taalem jïjtje.



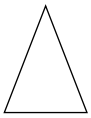


· Bïejh ryökneme-væhtah juktie vaastoeh reaktoe sjidtieh. ·· Göökte taalh mah sinsitnien baalte, edtjh tjåanghkan bïejedh, jïh vaastoem rovhtese , dan raajese daagkoe bijjelen tjaelieh.

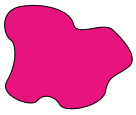
3 STATISTIHKE

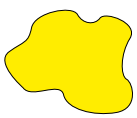


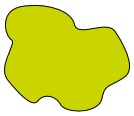
[·] Man gellie?



[··]

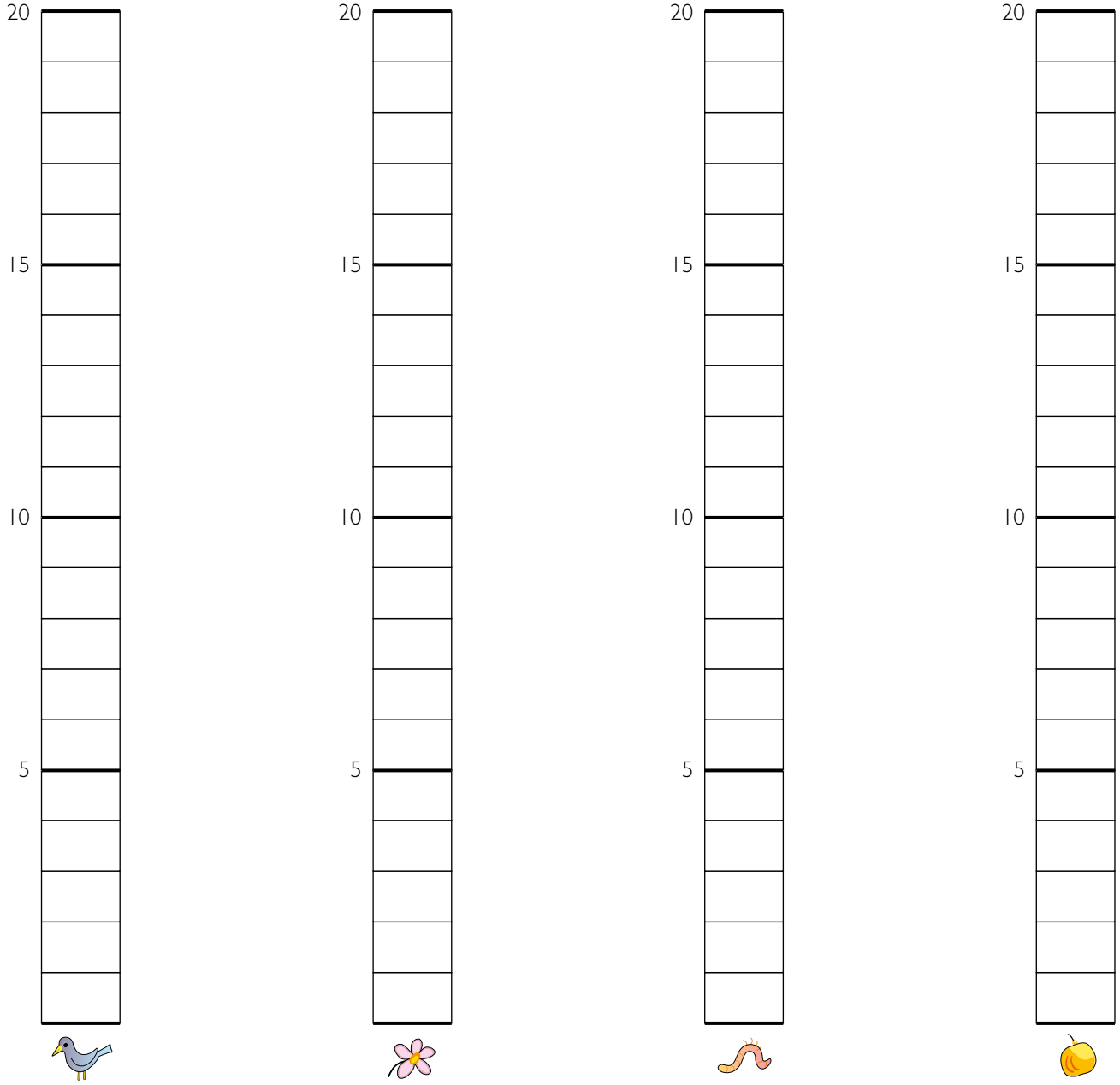






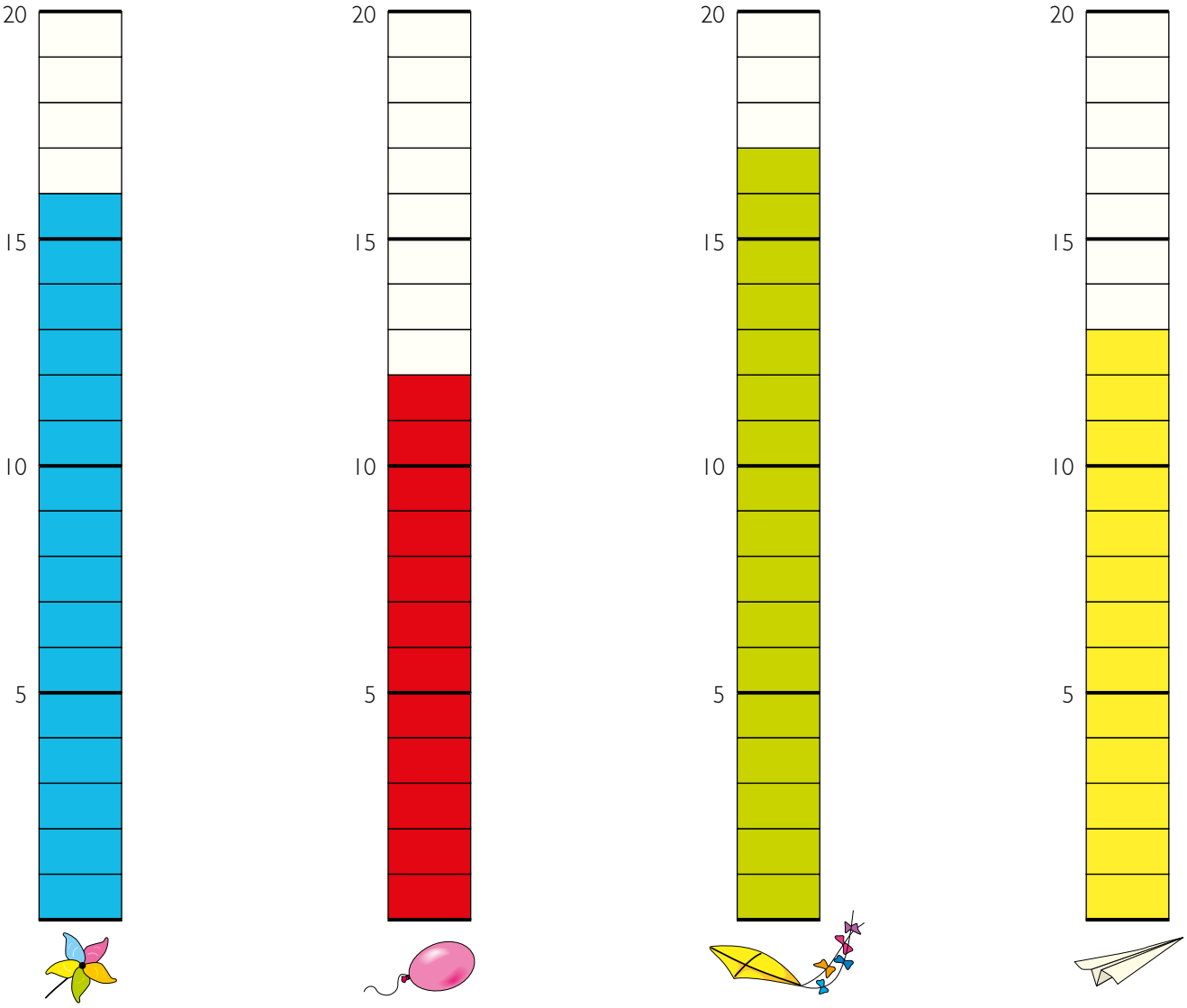
• Veesmh hammoej mietie jïh tjaelieh fierhten hammoen låhkoem. • • Veesmh klaeriej mietie jïh tjaelieh fierhten klaerien låhkoem.

[·] Man gellie?



• Ryöknh man gellie ledtieh, pleajmah, mååjegh jïh eahpelh. Klaeredh seamma jeenh rovhth haajhke-diagrammese guktie fiere-guhteste.

[·] Man gellie? Lohkh.

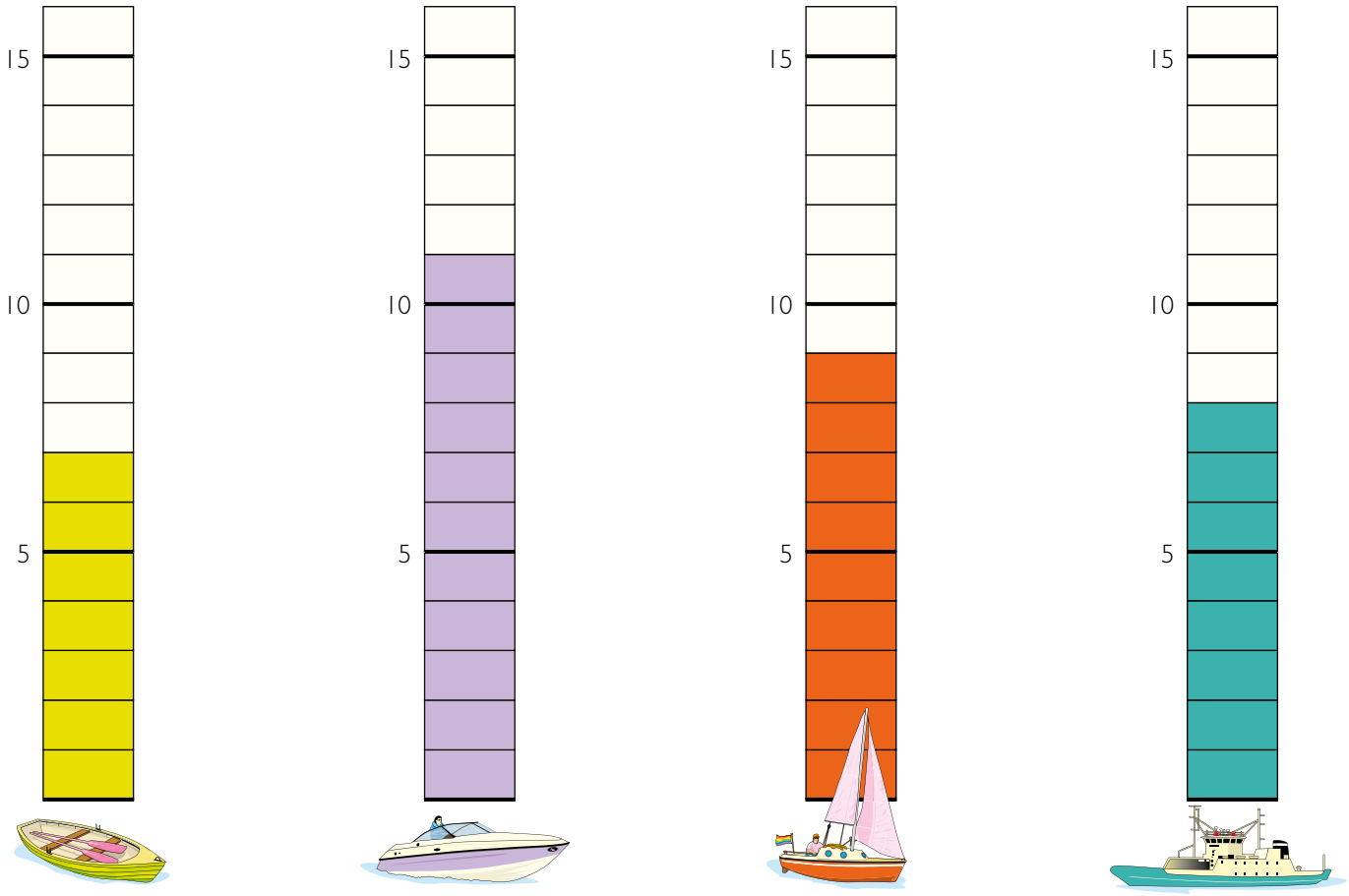


Mejnie gellemes gïehteleminie? _____

Mejnie vaenemes gïehteleminie? _____

• Lohkh haajhke-diagrammem jïh tjaelieh låhkoem fierhten haajhken nualan. Vaestedh gyhtjelasside.

[·] Man gellie? Lohkh.



Man gellie sigle-vïnhtsh? _____

Man gellie vïnhtsh leah motovrh? _____

Man gellie sovkeme-vïnhtsh jïh
sigle-vïnhtsh tjåenghkies? _____

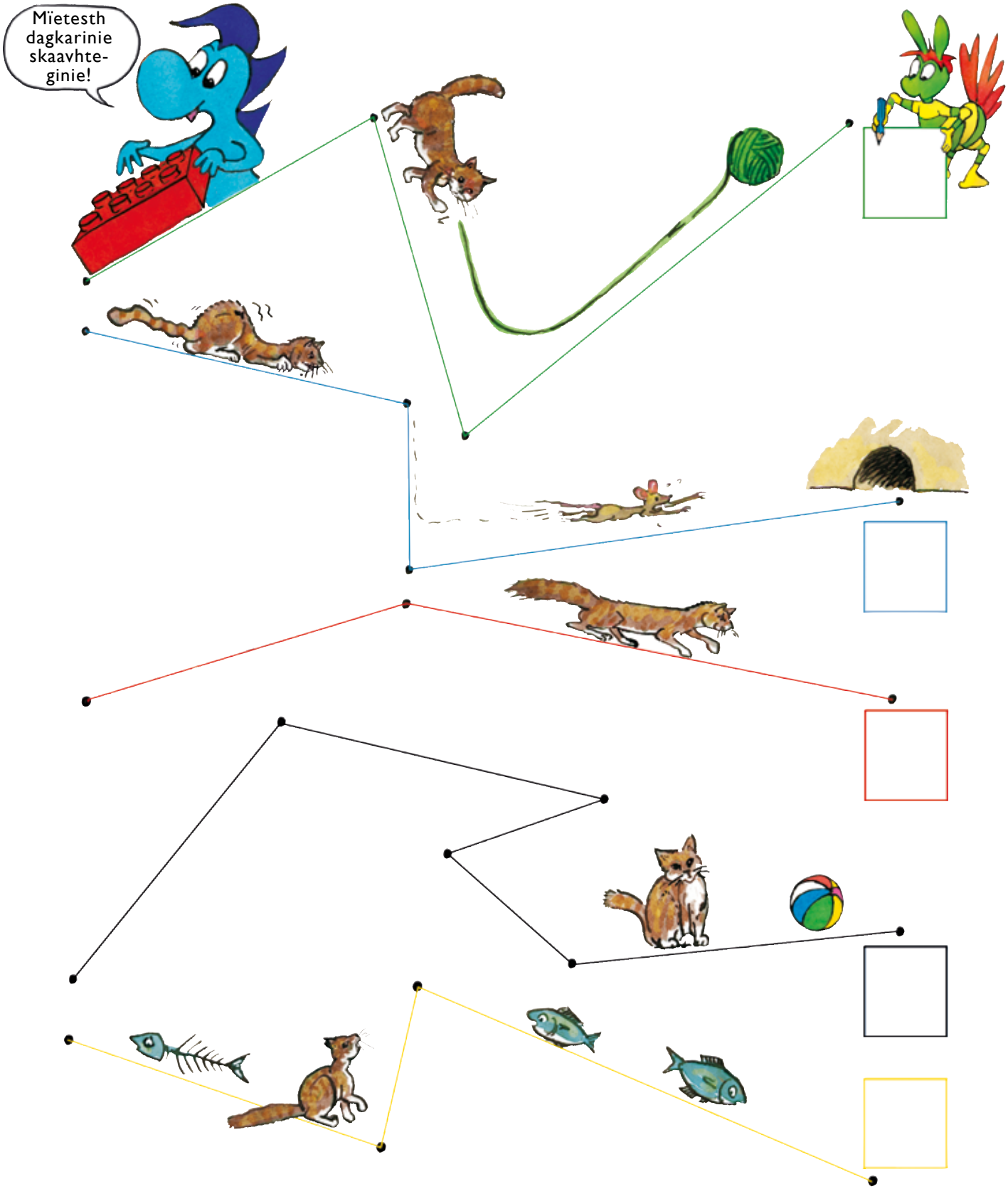
Man gellie jeenebh
motovre-vïnhtsh goh feerjah? _____

Man gellie vïnhtsh tjåenghkies? _____

• Lohkh haajhke-diagrammem jïh tjaelieh låhkoem. Vaestedh gyhtjelasside.

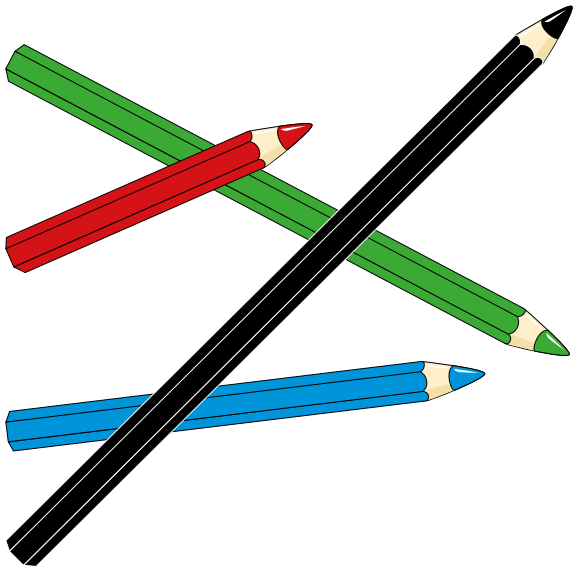
4 GÅHKOEH MÏETESTIDH

[·] Man gåhkese gaahtoe njaaka?

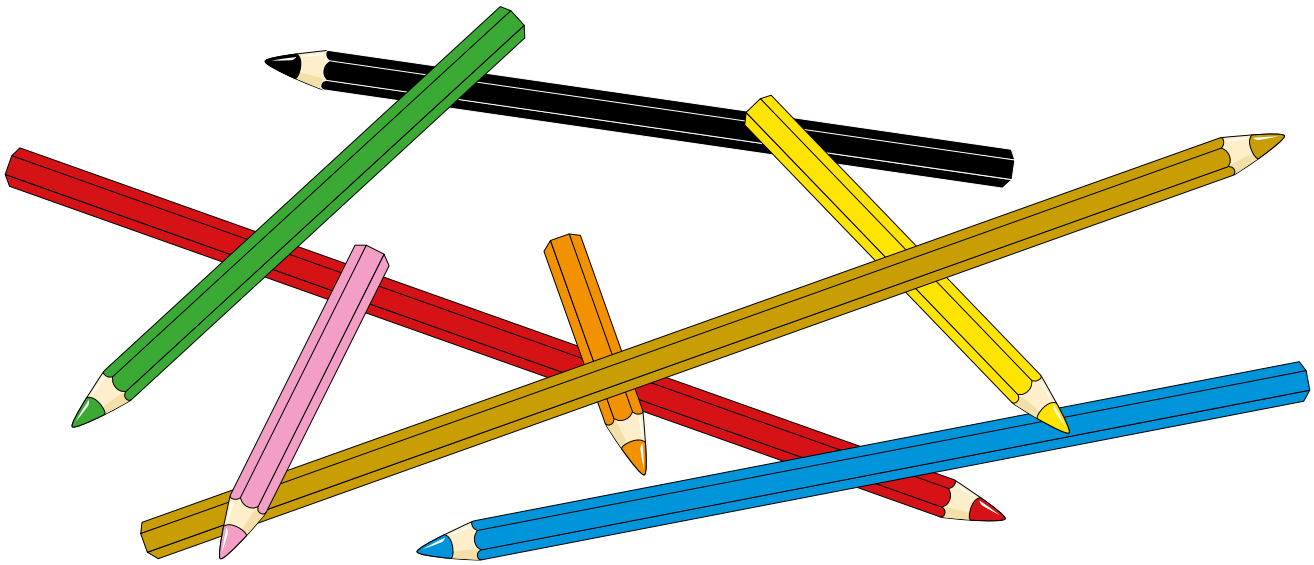


• Mïetesth sïevide aktine lego-skaavhteginie (gaektsie naevliejgujmie) jallh dagkarinie mij mahte seamma guhkies. Ryöknh man gellie legoskaavhtege-gåhkoeh, jih tjaelieh.

[·] Veesmh gåhkoen mietie.



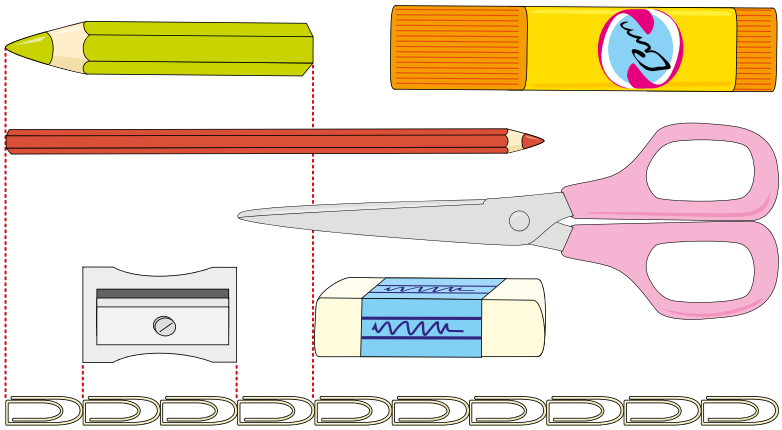
1	2	3	4

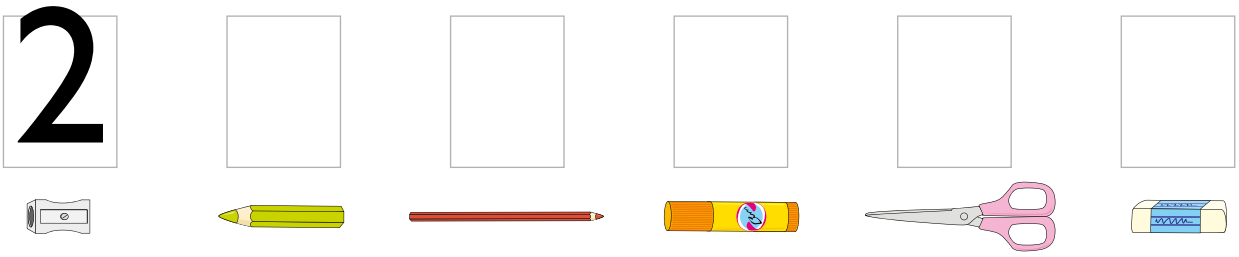


1	2	3	4	5	6	7	8

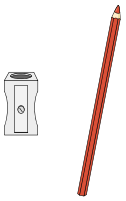
• Veesmh plæjjohkidie gåhkoen mietie, dehtie guhkemes gåhkoste dan åeniehkommes gåhkose. Mïerhkesjh klaerine tabellesne.

[·] Mïetesth gåhkojde.

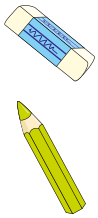




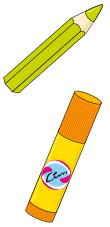
[··] Man guhkie ektesne?



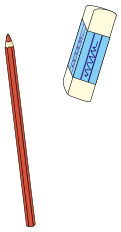
2 + ___ = ___



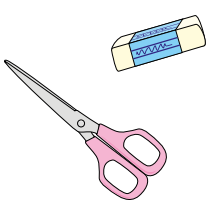
___ + ___ = ___



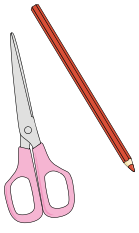
___ + ___ = ___



___ + ___ = ___



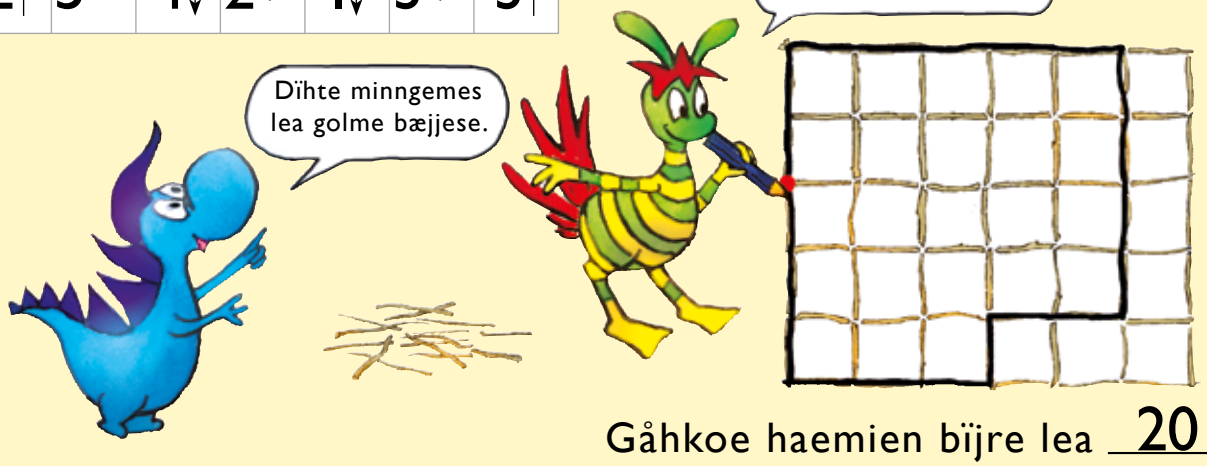
___ + ___ = ___



___ + ___ = ___

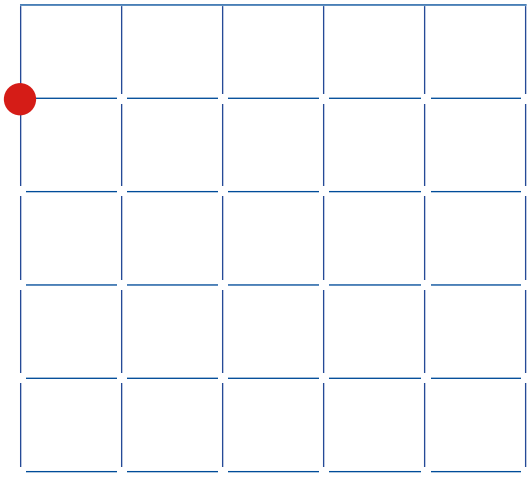
[·] Dåeredh væhtide jïh guvvedh haemide.
Gaavnh gåhkoem haemien bïjre.

2↑	5→	4↓	2←	1↓	3←	3↑



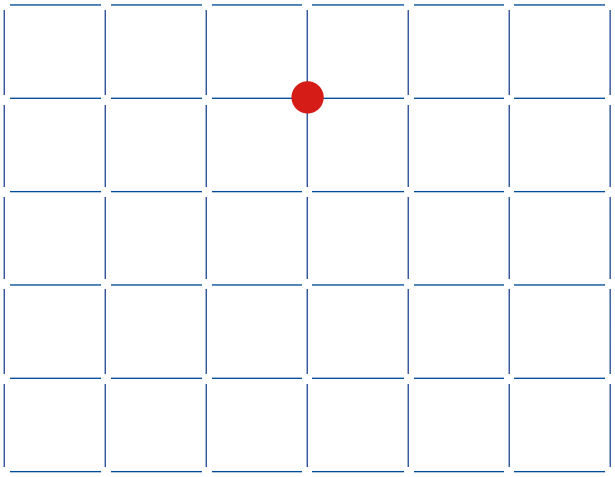
Gåhkoe haemien bïjre lea 20

3→	1↓	2→	3↓	5←	4↑



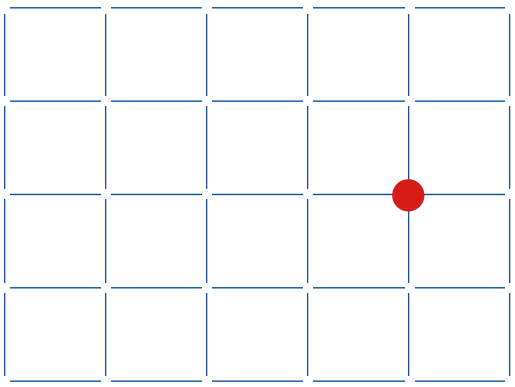
Gåhkoe haemien bïjre lea ____

3←	2↓	2→	2↓	4→	5↑	3←	1↓



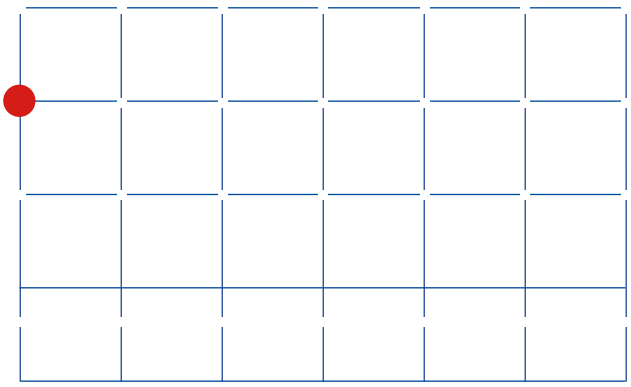
Gåhkoe haemien bïjre lea ____

1→	2↑	2←	4↓	3←	2↑	4→



Gåhkoe haemien bïjre lea ____

3↓	6→	2↑	2←	2↑	1→	1↓	5←

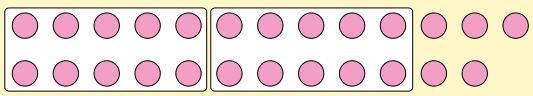


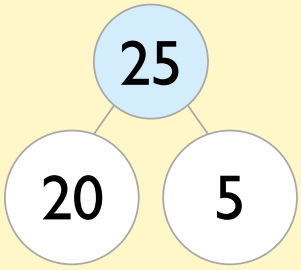
Gåhkoe haemien bïjre lea ____

· Dåeredh riektiem guktie haemide guvviedidh. Ryöknh minngemes man gellie sïevh abpe haemien bïjre jïh tjaelieh vaastoem.

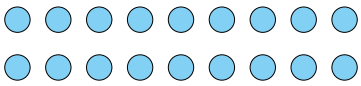
5 TAALH TAALESE 100

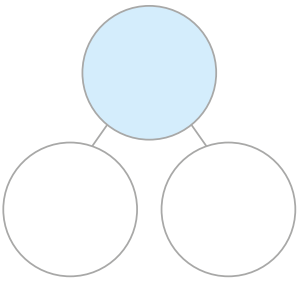
[·] Man gellie? Juekieh låhkaginie jïh aktaginie.



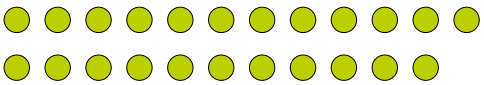


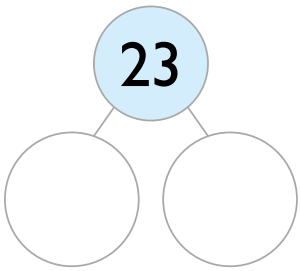
2 låhkegh jïh 5 aktegh



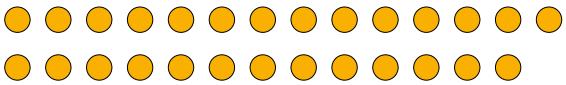


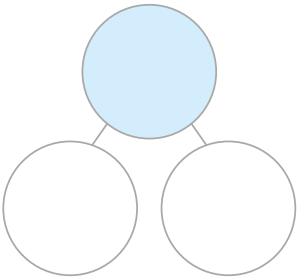
___ låhkegh jïh ___ aktegh



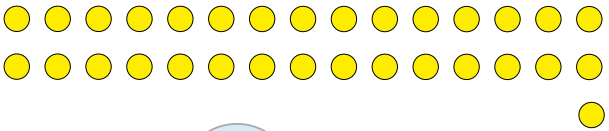


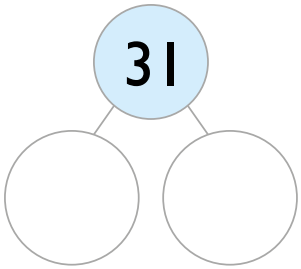
___ låhkegh jïh ___ aktegh



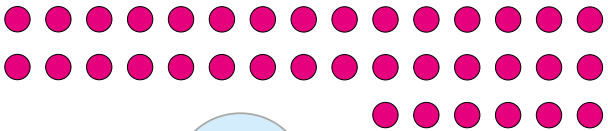


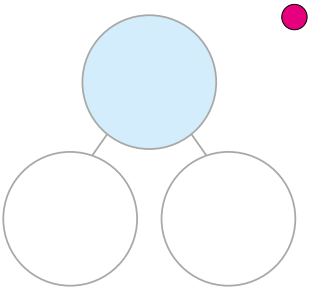
___ låhkegh jïh ___ aktegh





___ låhkegh jïh ___ aktegh

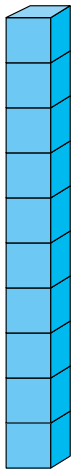
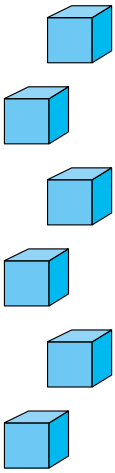


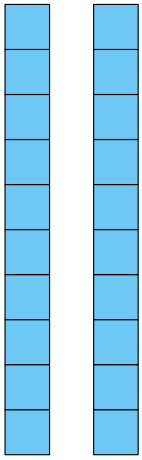
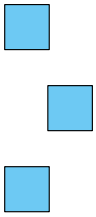


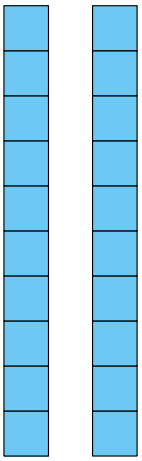
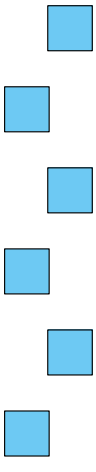
___ låhkegh jïh ___ aktegh

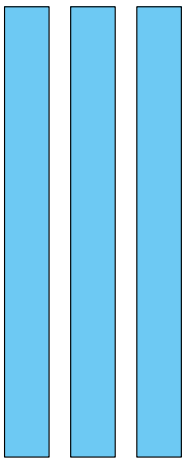
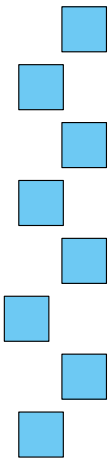
• Gievledh luhkien jïh luhkien bïjre. Tjaelieh dellie dam låhkoem dan plaave geavlan jïh vierhtiem låhkagijstie jïh aktagijstie, dej veelkes gievlide. Ryöknh minngemes man gellie låhkegh jïh aktegh jïh tjaelieh vaastoem dejtie sïevide.

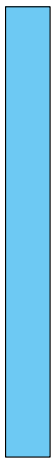
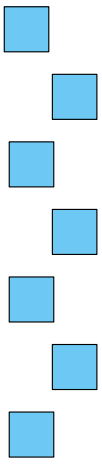
[·] Man gellie låhkegh jïh aktegh?

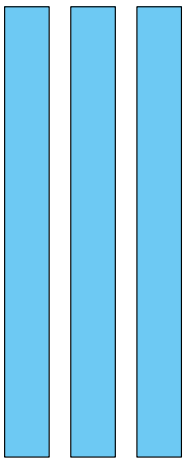
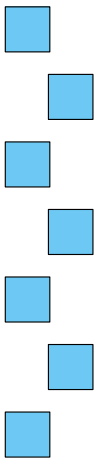
Låhkegh	Aktegh
	

Låhkegh	Aktegh
	

Låhkegh	Aktegh
	

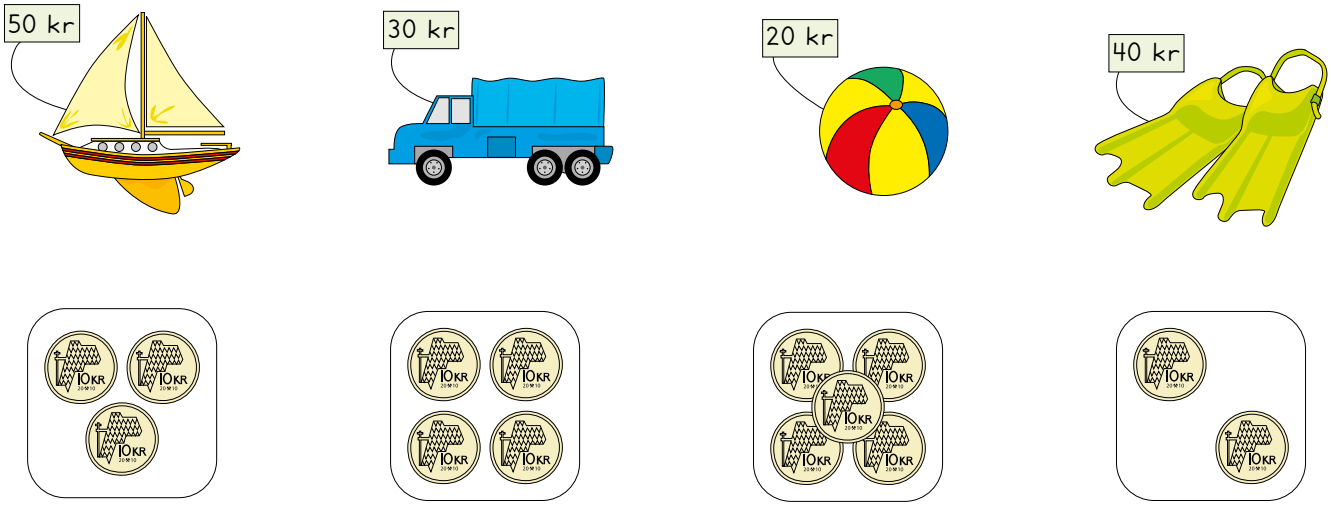
Låhkegh	Aktegh
	

Låhkegh	Aktegh
	

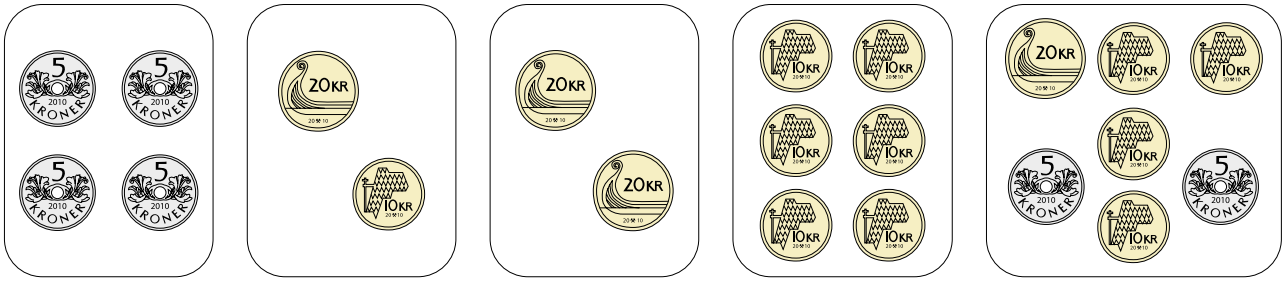
Låhkegh	Aktegh
	

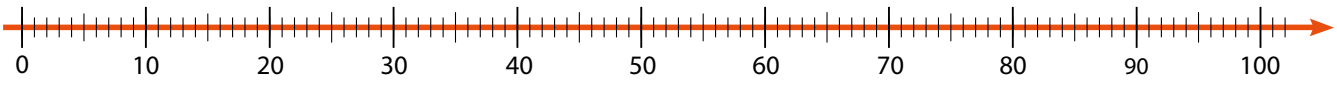
• Ryöknh man gellie låhkegh jïh aktegh jïh tjaelieh man gellie fiere-guhteste. Tjaelieh minngemes mij taalide mah ektesne vååjnoeh.

[·] Darjoeh sïevh rïektes tjåanghkan.

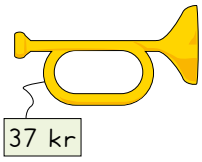


[··] Darjoeh sïevh taale-sïevese.

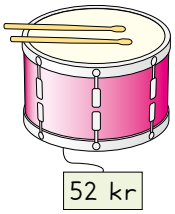




[∴] Guvvedh beetnegh jïh tjaelieh taalh.



Låhkegh	Aktegh
_____ kr	

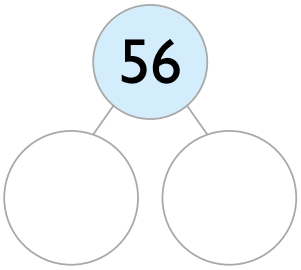


Låhkegh	Aktegh
_____ kr	

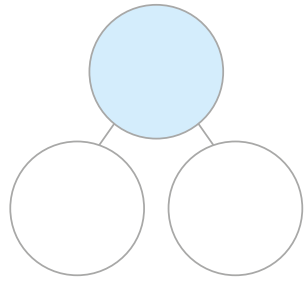
· Darjoeh sïevh åaseste beetneh-tjåanghkan mejtie dïsse sjeahta. ·· Gaavnh kråvnaj tjåenghkiem jïh darjoeh sïevh rïektes taalese taale-sïevesne. ∴ Guvvedh rïektes låhkoen låhkegh jïh aktegh. Tjaelieh dellie minngemes tjåenghkiem.

Man gellie kråvnah?

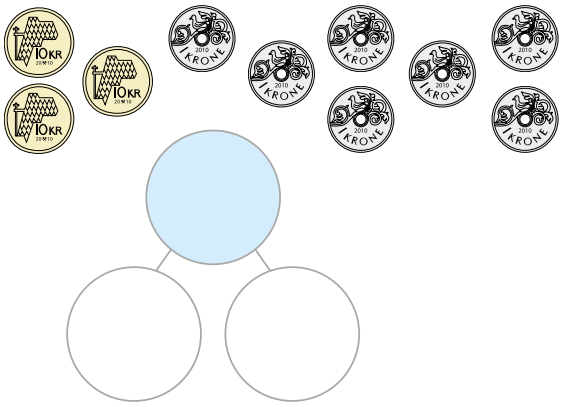
56



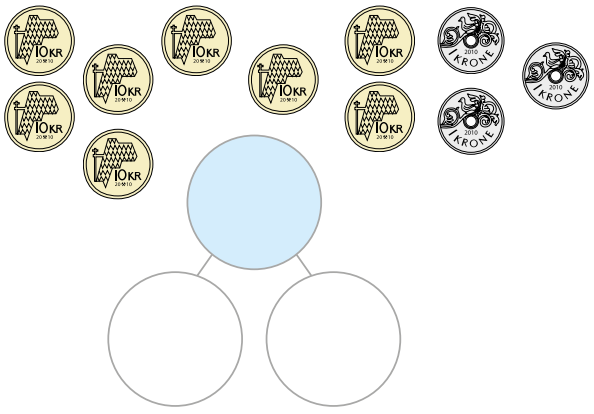
___ låhkegh jïh ___ aktegh



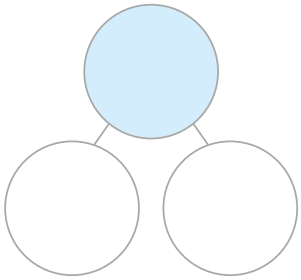
___ låhkegh jïh ___ aktegh



___ låhkegh jïh ___ aktegh

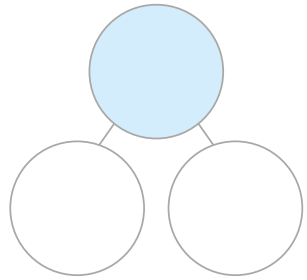


___ låhkegh jïh ___ aktegh



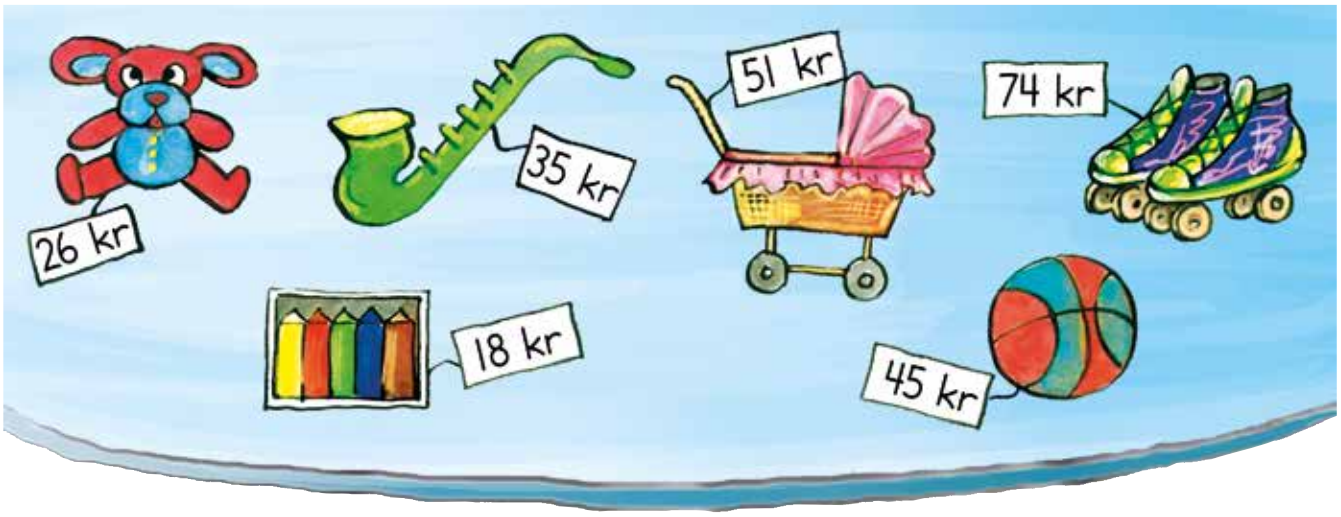
___ låhkegh jïh ___ aktegh

Veeljh jïjtje.

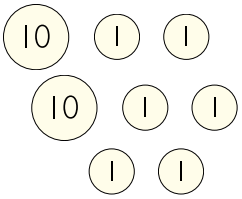


___ låhkegh jïh ___ aktegh

• Gaavnh kråvnaj tjåenghkiem jïh tjaelieh dejtie dan plaave geavlan. Dejnie veelkes gievline taalem låhkegi jïh aktegi mietie juekieh. Ryöknh minngemes man gellie låhkegh jïh aktegh jïh tjaelieh låhkoem dejtie sïevide. Minngemes ïierehtimmesne maahtah jïjtje tjåenghkiem veeljedh.



[·] Guvvedh kråvnide jïh tjaelieh taalide.



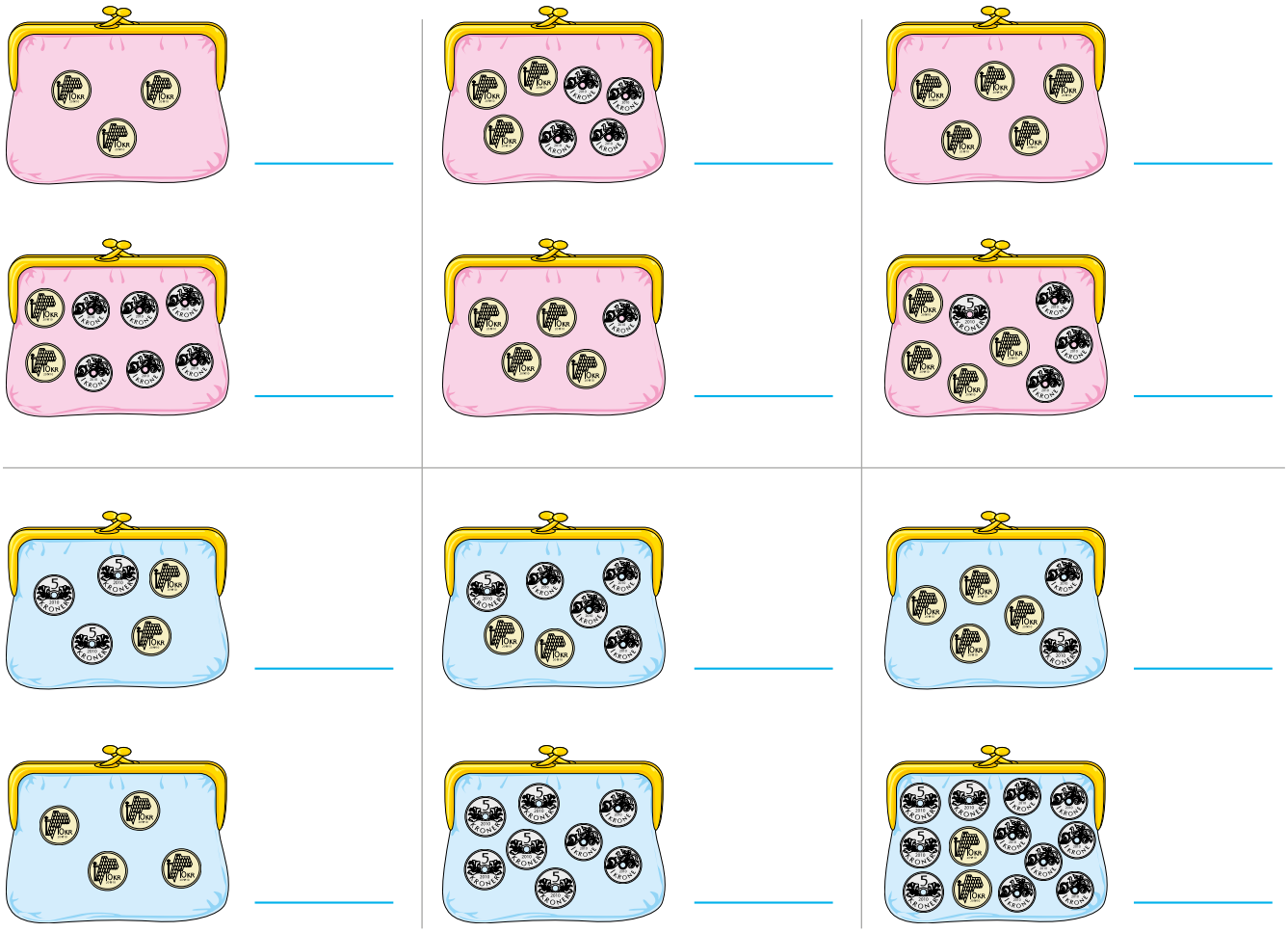
26

20 6

51

· Gaavnh fierhten vaaroen åesiem jïh tjaelieh dejtie dan plaave geavlan. Juekieh taalem låhkegi jïh aktegi mietie dejnie veelkes gievline jïh guvvedh kråvnide.

[·] Gusnie jeenemes? Gievledh taalen bïjre.

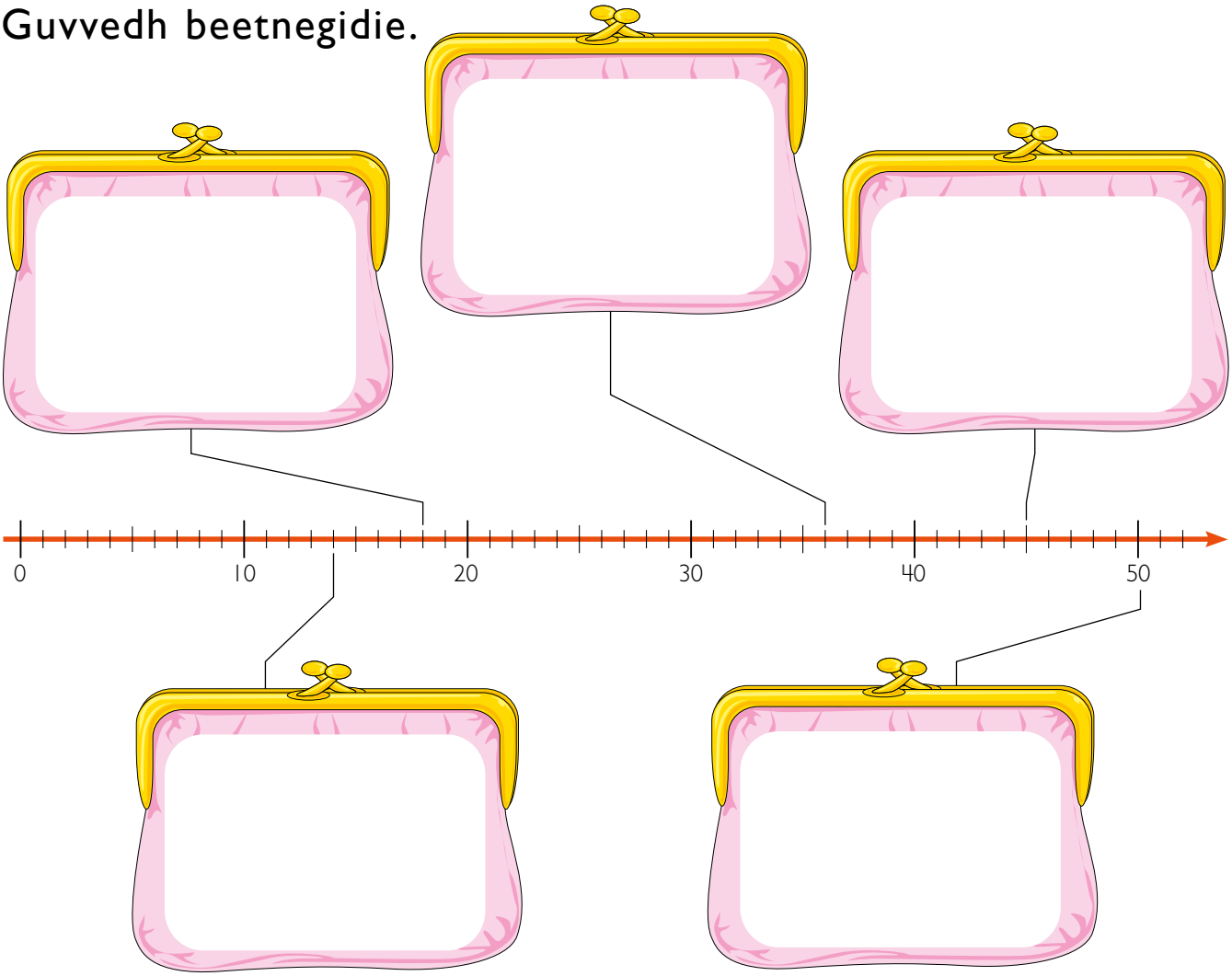


[··] Man jeene?

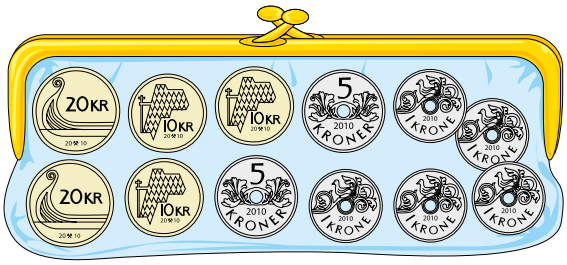
Tjaelieh taalide guktie gaevnjieruktien mietie tjeevtieh.

• Tjaelieh man jeene fierhtene beetneh-bongkesne jïh gievledh jollemes taalen bïjre. • • Gaavnh tjåenghkiem fierhtene beetneh-bongkesne jïh tjaelieh sïevese beetneh-bongken nualan. Tjaelieh taalide gaevnjieruktien mietie dehtie unnemes taaleste dan stööremes taalese.

[·] Guvvedh beetnegidie.



[··] Magkerh kråvnajgujmie maahtah maeksedh?

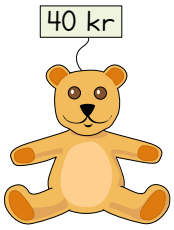


40 kr =

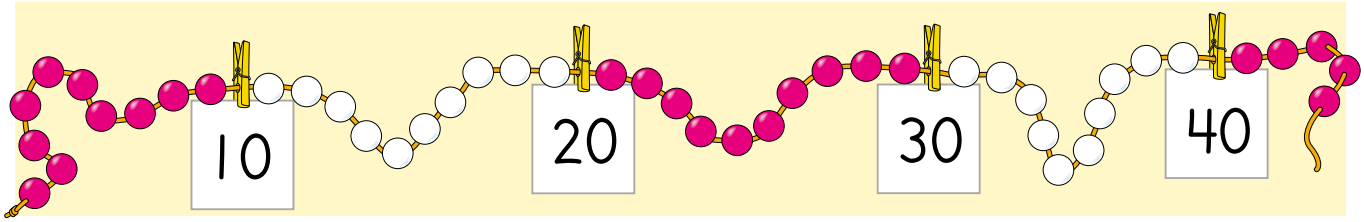
40 kr =

40 kr =

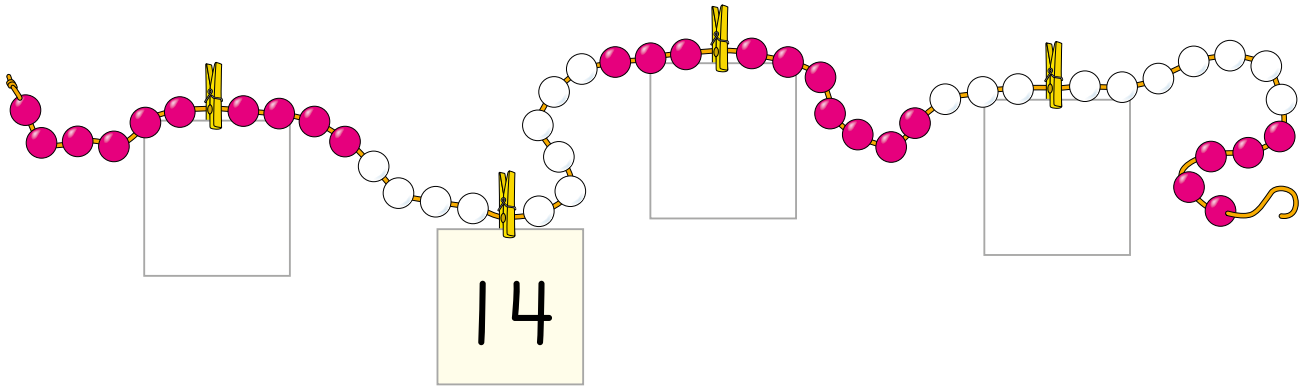
40 kr =

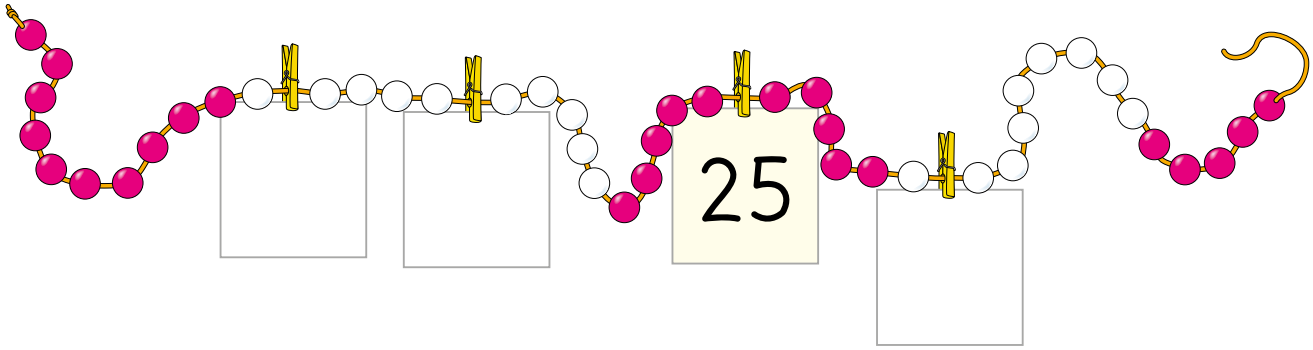


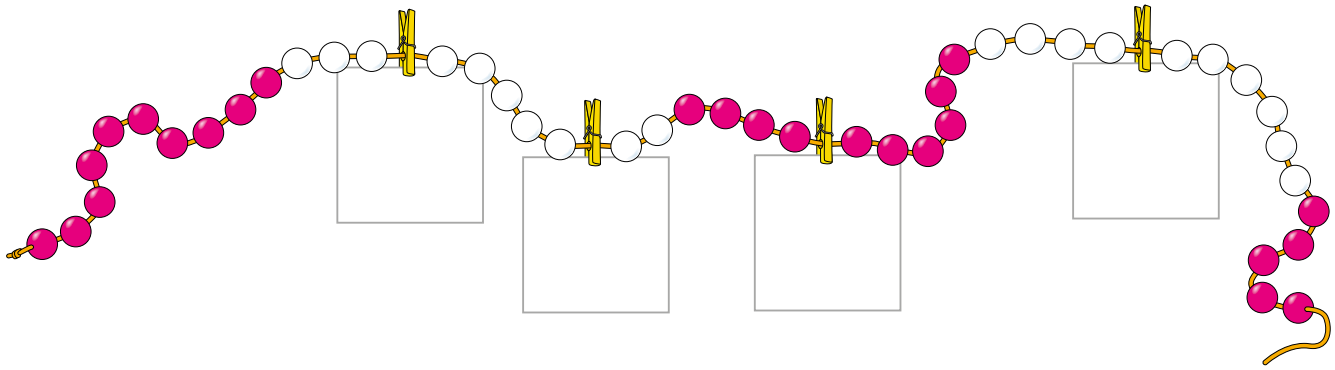
· Lohkh taale-sïevem jïh guvvedh rïektes kråvnah beetneh-bongkide. ·· Darjoeh 40 kråvnah njieljie måedtie vuekiej mietie. Provhkh kråvnide beetneh-bongkesne.

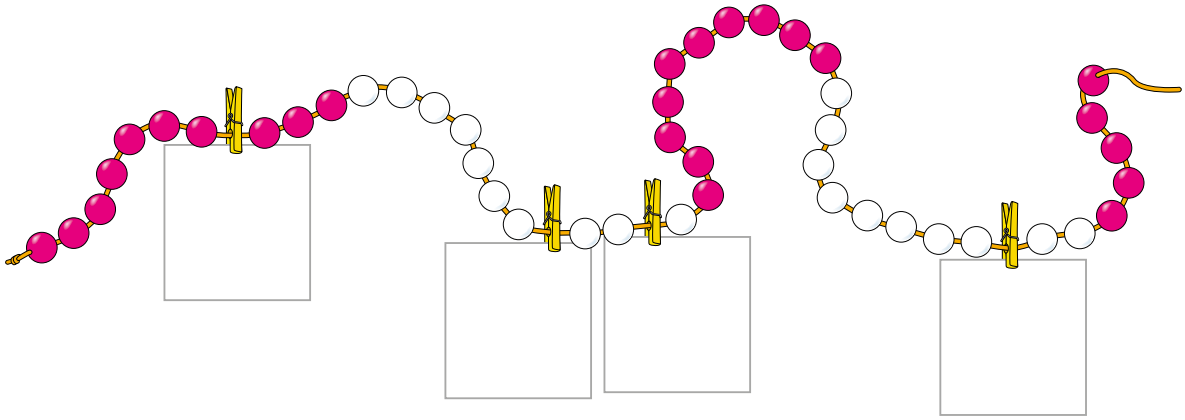


[·] Man gellie gearketjh?









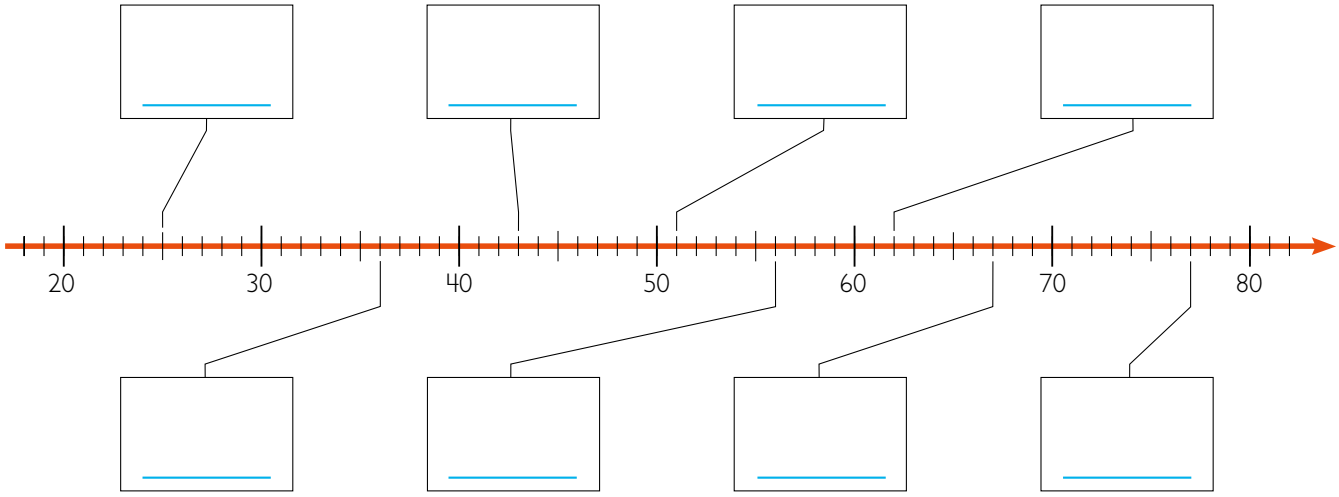
• Ryöknh gaajhkh gearketjh tjueptjiej gårroeh bielesne jïh tjaelieh låhkoem rovhtide.

[·] Gusnie mahte dah taalh taale-sïevesne. Darjoeh sïevh.

8 13 32 24

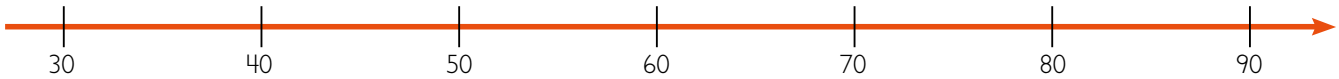
17 2 34 43

[··] Tjaelieh taalide.



[∴] Gusnie mahte dah taalh taale-sïevesne. Darjoeh sïevh.

35 52 61 69



38 44 73 85

· Darjoeh sïevh taalijste gusnie mahte dah taalh taale-sïevesne. ·· Lohkh taale-sïevem jïh tjaelieh taalide rovhtide.
∴ Darjoeh sïevh taalijste gusnie mahte dah taalh taale-sïevesne.

[·] Tjaelieh dejtie mubpide taalide.

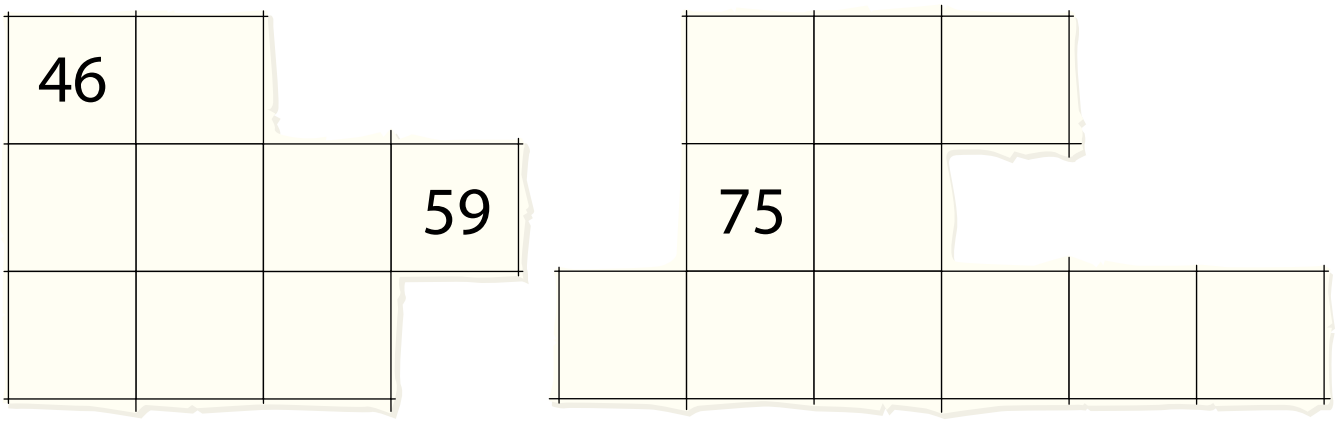
		30				70
5	15	25				
			32	42	52	
17			47	57		
	70	75				

• Tjaelieh taalide mah taale-bååresisnie fååtesieh.

[·] Mij taalide haemiej duakan tjïekedamme?

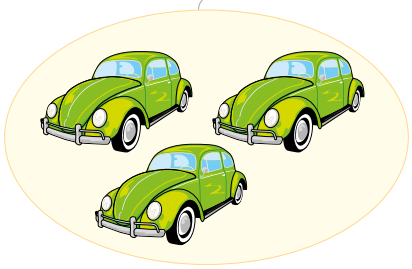
1	2	3	4		6	7	8		
11		13	14		16	17	18		20
21	22		24			27			30
				35		37			
41	42		44				48	49	
51	52		54	55	56		58	59	
61			64		66			69	70
71		73				77		79	80
81		83	84		86	87		89	90
91	92	93	94		96	97	98	99	100

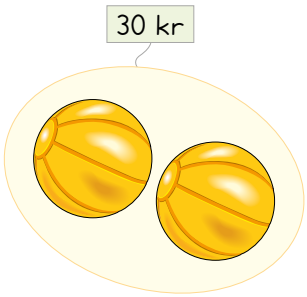
[··] Tjaelieh taalh rovhtide.

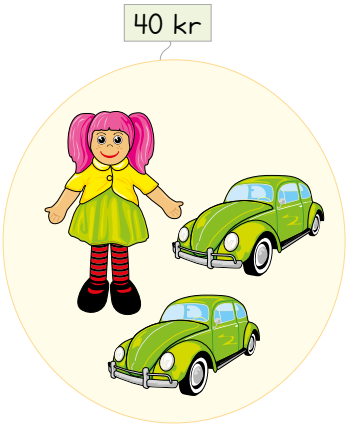


• Tjaelieh taalide mah haemiej duakan tjïekedamme. • • Rovhte-viermie «bïetskedovveme» stoereluhkie-rovhteste daagkoe bijjelen. Tjaelieh taalide mah fåatesieh.

[·] Man dovres stååke-gaevnieh?







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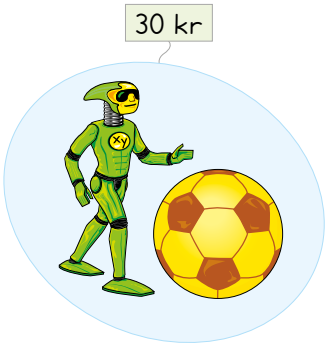
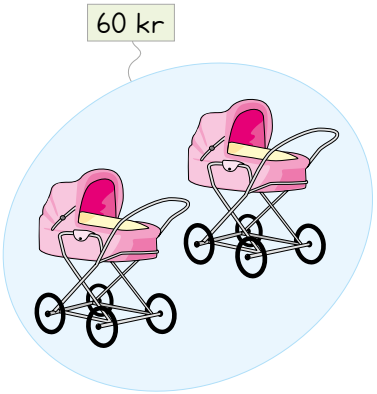
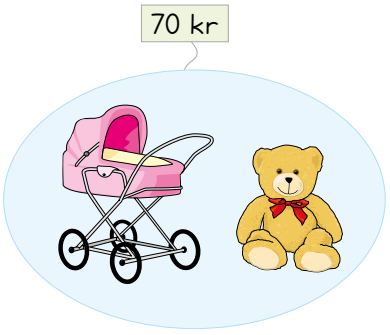
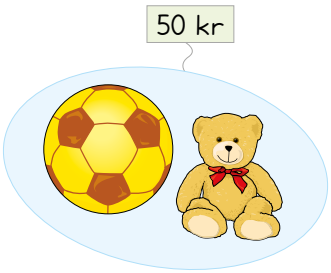
[··] Man dovres stååke-gaevnieh?









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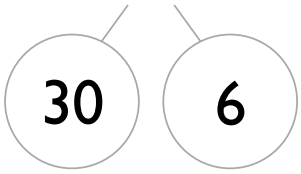
· Vuartesjh dejtie golme dåehkide stååke-gaevniejgujmie. Åasaj jïh stååke-gaevniej viehkine fierhtene dåehkesne, maahtah gaavnedh man jeene fierhten stååke-gaevnie maaksa. ·· Vuartesjh eensi-laakan dejtie njieljie dåehkide stååke-gaevniejgujmie. Åasaj jïh stååkegaevniej viehkine fierhtene dåehkesne, maahtah gaavnedh man jeene fierhten stååke-gaevnien åvteste maaksa.

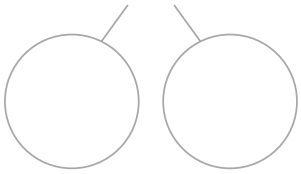
6 PLUSSE JÏH MIJNUSE

[·] Man jeene ektesne?

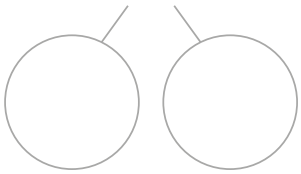
36 + 3 = ____



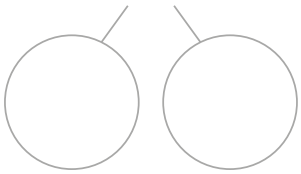
22 + 6 = ____

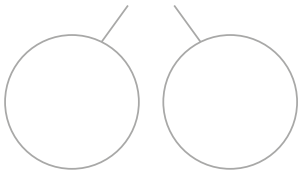


43 + 6 = ____

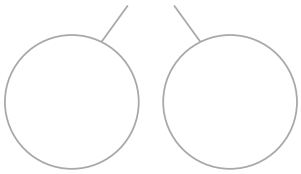


94 + 4 = ____

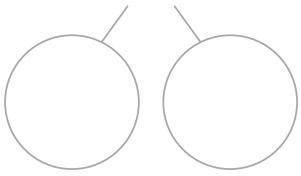




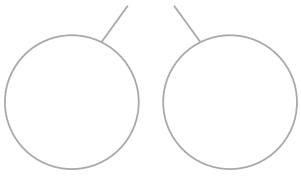
64 + 3 = ____



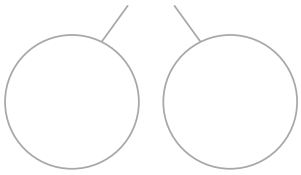
52 + 3 = ____



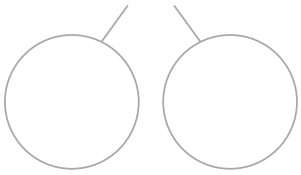
41 + 5 = ____



37 + 2 = ____



83 + 4 = ____



• Juekieh dam göökte-siffere taalem låhkegi jïh aktegi mietie jïh ryöknedh vaastoem.

[·] Man jeene ektesne?

31 + 6 = ____

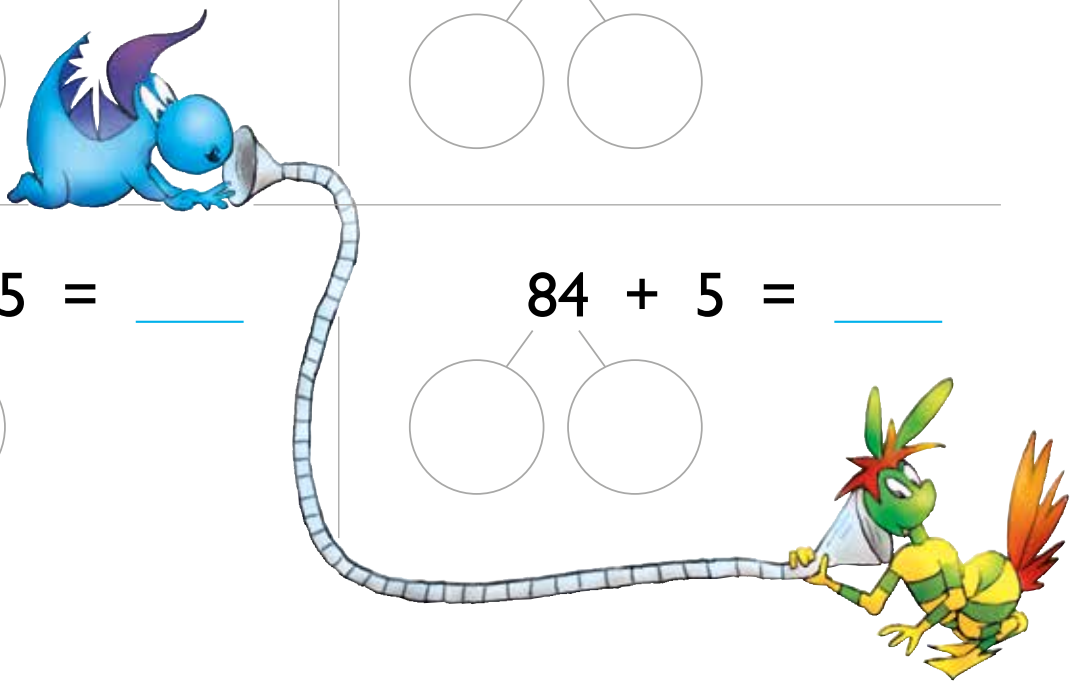
42 + 7 = ____

52 + 5 = ____

63 + 3 = ____

72 + 5 = ____

84 + 5 = ____



[··] Ryöknedh.

33 + 5 = ____	15 + 2 = ____	34 + 4 = ____
51 + 4 = ____	24 + 5 = ____	82 + 6 = ____
47 + 2 = ____	93 + 6 = ____	73 + 5 = ____
62 + 5 = ____	71 + 7 = ____	56 + 3 = ____
81 + 8 = ____	53 + 4 = ____	82 + 7 = ____

· Juekieh dam göökte-siffere taalem låhkegi jïh aktegi mietie jïh ryöknedh vaastoem. · · Ryöknedh jïh tjaelieh vaastojde.

Man jeene ektesne?

$25 + 8 =$

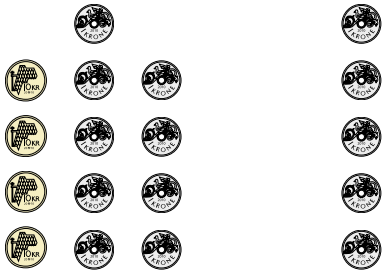
$20 + 5 + 8 = \underline{33}$

Manne 25 juakam. Dellie 20 + 13 = 33 åadtjoem.

$25 + 8 =$

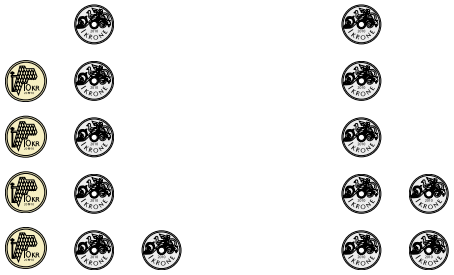
$25 + 5 + 3 = \underline{33}$

Manne 8 juakam. Dellie 30 + 3 = 33 åadtjoem.



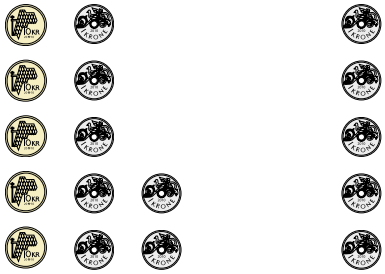
$49 + 5 =$

$___ + ___ + ___ = ___$



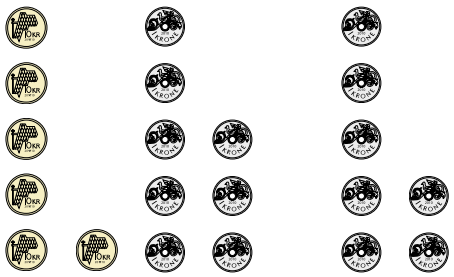
$46 + 7 =$

$___ + ___ + ___ = ___$



$57 + 5 =$

$___ + ___ + ___ = ___$



$68 + 7 =$

$___ + ___ + ___ = ___$

• Lïerehtimmie dutnjien nuepiem vadta addisjovnem ussjedidh akten göökte-siffere taaleste jïh akten akte-siffere taaleste orre-låhkaginie.

[·] Ryöknedh.

16 + 8 = ___ + ___ + ___ = ___	25 + 7 = ___ + ___ + ___ = ___
19 + 9 = ___ + ___ + ___ = ___	37 + 7 = ___ + ___ + ___ = ___
36 + 7 = ___ + ___ + ___ = ___	47 + 5 = ___ + ___ + ___ = ___
28 + 8 = ___ + ___ + ___ = ___	65 + 9 = ___ + ___ + ___ = ___

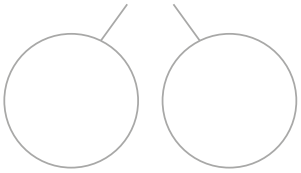
[··] Ryöknedh.

37 + 8 = ___	44 + 8 = ___	36 + 5 = ___
53 + 9 = ___	87 + 5 = ___	69 + 7 = ___
78 + 8 = ___	48 + 7 = ___	78 + 5 = ___
62 + 9 = ___	58 + 3 = ___	84 + 8 = ___

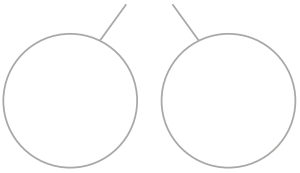
· Datne addisjovnem lïerh ussjedidh akten gellie-siffere taaleste orre-låhkaginie. Veeljh jïjtje guktie taalide juekedh.
·· Ryöknedh jih tjaelieh vaastojde.

[·] Juekieh låhkegi jïh aktegi mietie. Ryöknedh.

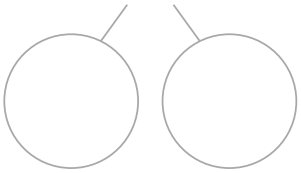
36 – 3 = ____



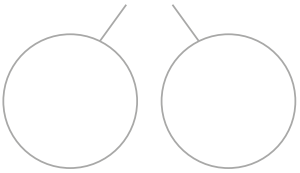
55 – 2 = ____



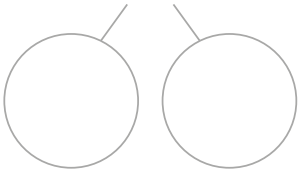
64 – 3 = ____



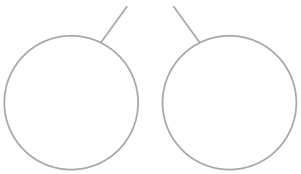
38 – 4 = ____



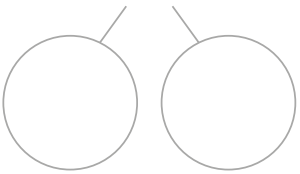
27 – 5 = ____



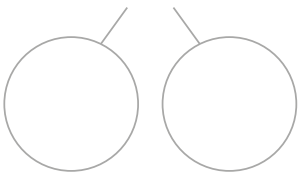
19 – 7 = ____



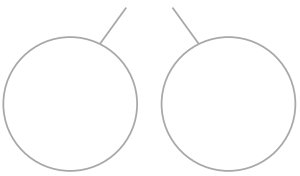
48 – 6 = ____



37 – 3 = ____



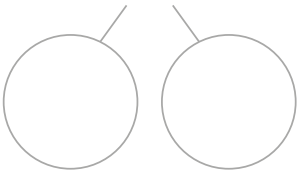
69 – 8 = ____



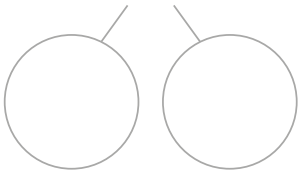
• Juekieh dam göötkesiffere-taalem låhkegi jïh aktegi mietie jïh ryöknedh vaastoem.

[·] Ryöknedh.

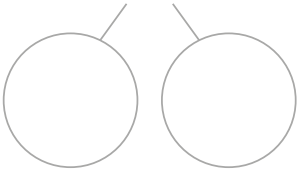
56 – 4 = ____



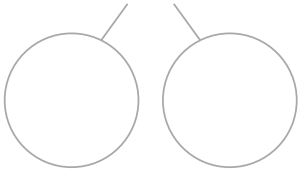
49 – 6 = ____

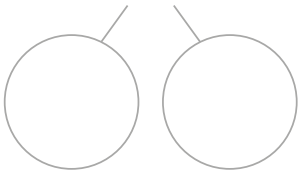


68 – 6 = ____



87 – 7 = ____



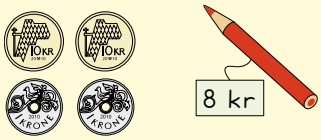


[··] Ryöknedh.

25 – 3 = ____	89 – 4 = ____	26 – 6 = ____
38 – 4 = ____	78 – 6 = ____	48 – 7 = ____
59 – 6 = ____	57 – 4 = ____	95 – 5 = ____
63 – 2 = ____	99 – 5 = ____	75 – 5 = ____
77 – 5 = ____	38 – 7 = ____	99 – 9 = ____

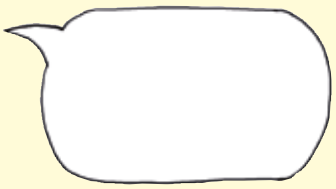
· Juekieh dam göökteSiffere-taalem låhkegi jïh aktegi mietie jïh ryöknedh vaastoem. ·· Ryöknedh jïh tjaelieh vaastojde.

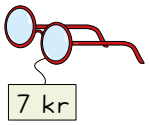
Man jeene aajmojne?



$22 - 8 = 14$

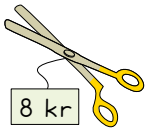
2 6





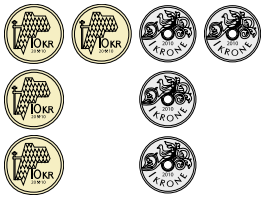
$43 - 7 = ____$

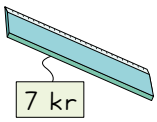
$35 - 9 = ____$



$26 - 8 = ____$

$31 - 6 = ____$





$44 - 7 = ____$

$52 - 5 = ____$

• Datne edtjh evtiedidh subtraksjovnem ussjedidh akten göökte-siffere taaleste jïh akten akte-siffere taaleste orre-låhkaginie Juekieh dam akte-siffere taalem juktie aelhkebe sjædta vaastoem ryöknedh.

[·] Ryöknedh.

56 – 4 = ____	49 – 6 = ____	38 – 4 = ____
38 – 6 = ____	87 – 7 = ____	47 – 6 = ____
45 – 4 = ____	79 – 5 = ____	88 – 5 = ____

[··]

21 – 4 = ____	23 – 7 = ____	74 – 9 = ____
32 – 5 = ____	51 – 3 = ____	84 – 7 = ____
43 – 6 = ____	62 – 8 = ____	92 – 7 = ____

[∴] Ryöknedh. Tjaelieh baakojde rovhtide seamma taaligujmie guktie vaastoe vöölemes daennie bielesne.

27 + 20 = ____ E	52 + 8 = ____ P
58 + 8 = ____ U	21 + 20 = ____ M
18 + 30 = ____ H	18 + 60 = ____ S
55 + 6 = ____ L	27 + 40 = ____ S
39 + 10 = ____ T	10 + 42 = ____ A
49 + 9 = ____ N	

41	52	58	58	47	60	61	66	67	78	47	41	41	52	52

48	49	52	41			

!

· Ryöknedh jïh tjaelieh vaastojde. ·· Ryöknedh jïh tjaelieh vaastojde. ∴ Ryöknedh jïh tjaelieh vaastojde. Fierhten vaastoe seamma goh baakoe maam edtjh rïektes sæjjan tjaeledh vöölemes bielesne.

[·] Ryöknedh. Darjoeh sïevh fierhtede bïenjeste rïektes aajhterasse.

55 - 6 = _____

43 - 7 = _____

44 - 5 = _____

95 - 50 = _____

89 - 40 = _____

35 - 6 = _____

52 - 3 = _____

89 - 60 = _____

49 - 4 = _____

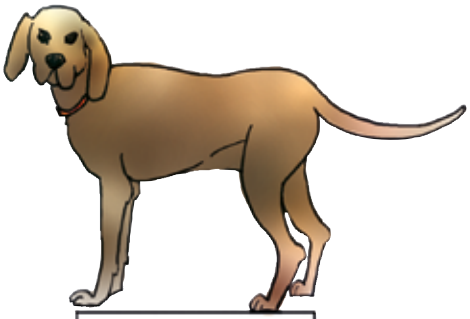
58 - 9 = _____

86 - 50 = _____

47 - 8 = _____

69 - 30 = _____

40 - 4 = _____



38 - 9 = _____

49

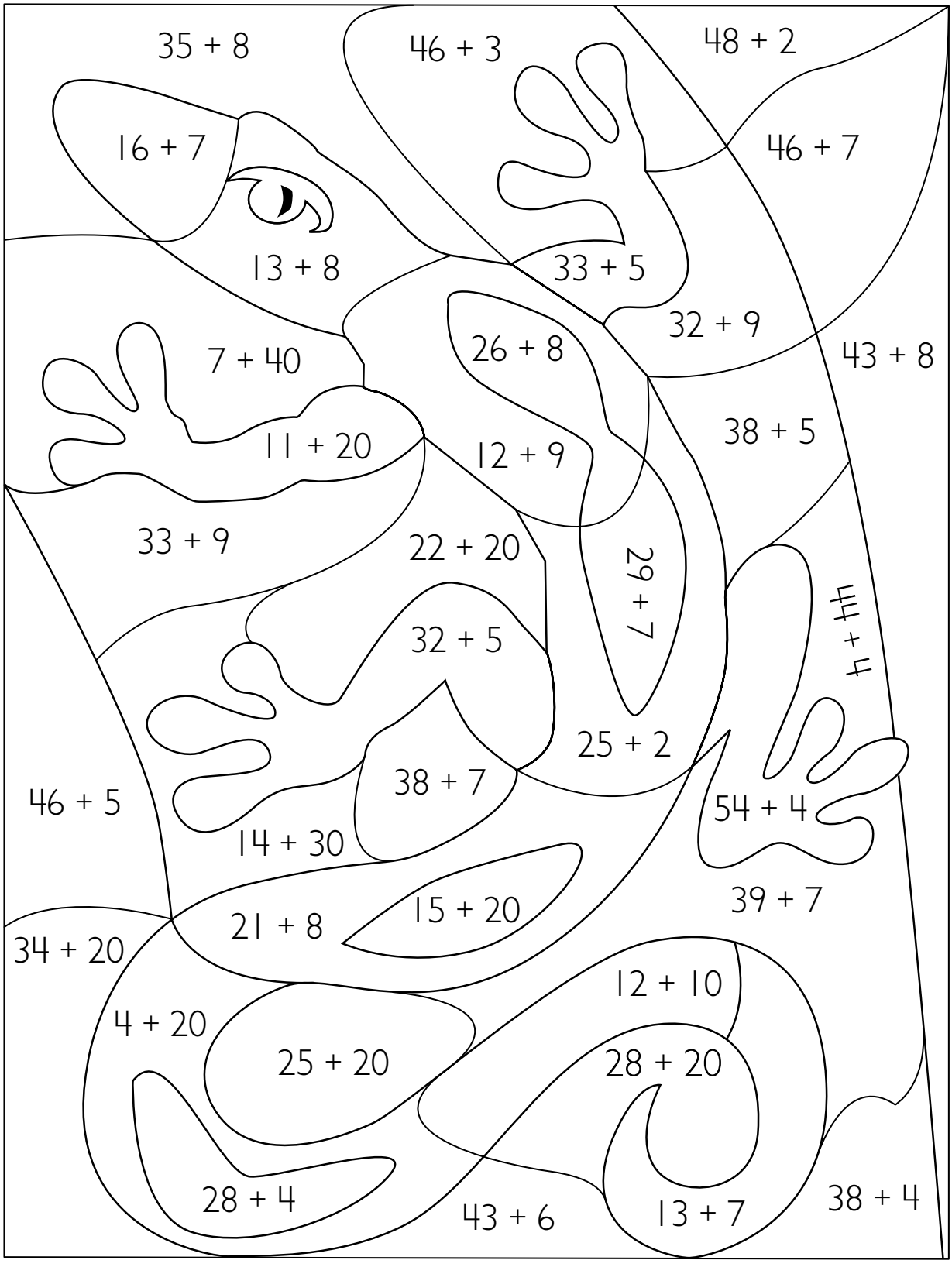
45

39

36

29

Ryöknedh. Klaeredh.



20–29 30–39 40–49 50–59

• Ryöknedh jïh klaeredh klaerie-riektesen mietie vöölemes daennie bielesne.

7 TÏJJE

[·] Darjoeh sïevh askeste nommerasse.

1.
2.
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.

[··]

Voerhtje dïhte _____ aske.

Ruffie dïhte _____ aske.

Suehpede dïhte _____ aske.

Golke dïhte _____ aske.

Mïetske dïhte _____ aske.

Rahka dïhte _____ aske.

· Darjoeh sïevh asken nommen jïh nommeren gaskem. ·· Tjaelieh öörnege-taalh askide. Mujhtieh tsiehkiem taale-damtsvæhtan mænngan bïejedh.

[·] Tjaelieh biejjide rïektes gaevnjieruktien mietie.

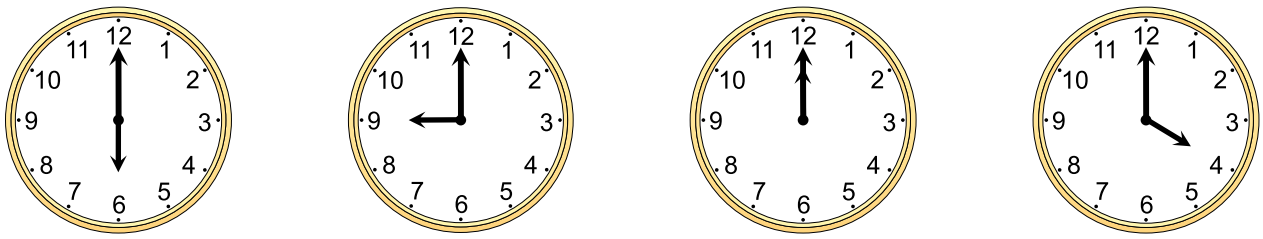
GASKEVÅHKOE	
AEJLEGE	
MÅANTA	
BEARJADAHKE	
DÆJSTA	
LAVVARDAHKE	
DUARSTA	

[··] Tjaelieh biejjide mah fååtesieh.

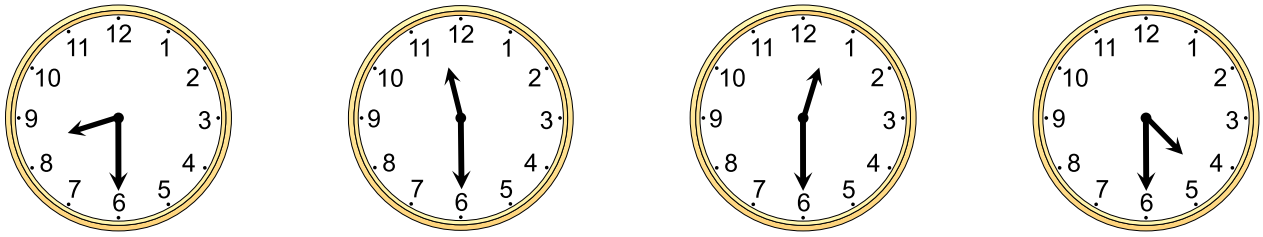
Jåktan	Daanbien	Jirreden
DUARSTA		
	DÆJSTA	
	AEJLEGE	
		DUARSTA

[·] Guvvide gaevnjieruktien mietie nommerdahta.

[··] Darjoeh sïevh rïektes tæjmose.



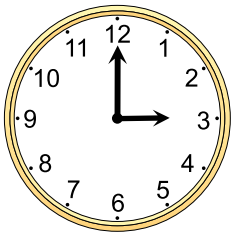
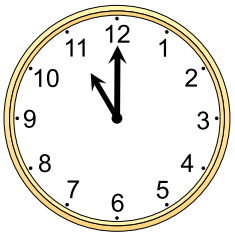
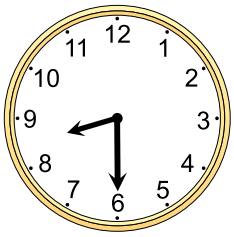
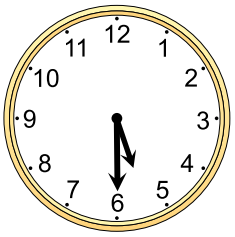
	4		9

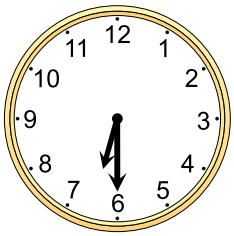
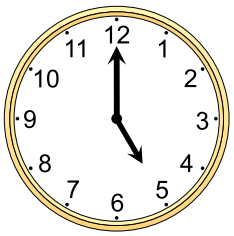
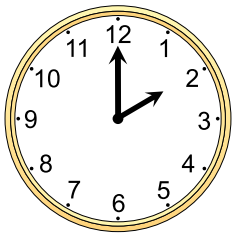
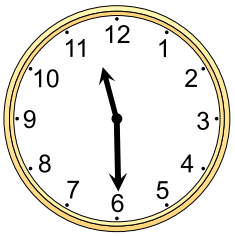


bielie 12	bielie 9		bielie 1

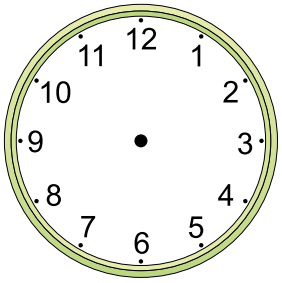
• Guvvide edtjieh gaevnjieruktien mietie nommerdidh. Tjaelieh nommerem rovhtide bijjemes dennie åelkies bielesne fierhten gåvvan. •• Darjoeh sïevh tæjmoen jih tsåahkan gaskem mah seamma tæjmoem vuesiehtieh.

[·] Mennie mieresne tsåahka?

[··] Guvvedh væjserh.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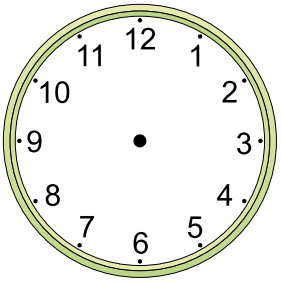
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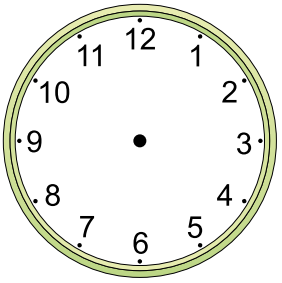
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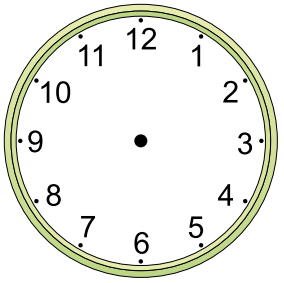
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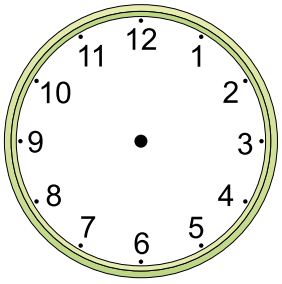
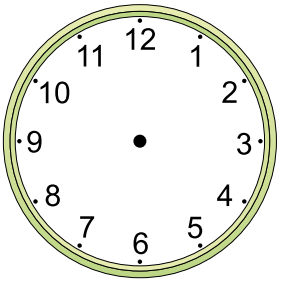
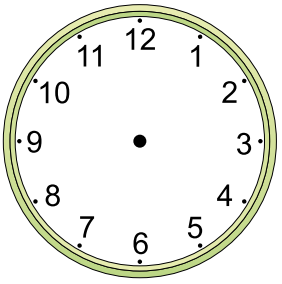
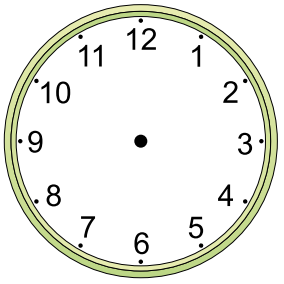

bielie 1


bielie 8


bielie 4


bielie 10

· Tjaelieh tsåahkaj tæjmojde. ·· Guvvedh væjserh tsåahkide. Årroeh eensi-laakan gosse joekehtassem tæjmoe- jih minudtevæjseri gaskem tjaalah.

[·] Nommerdehtieh guvvide gaevnjieruktien mietie.

[··] Vuartesjh guvvide jïh vaestedh gyhtjelasside.

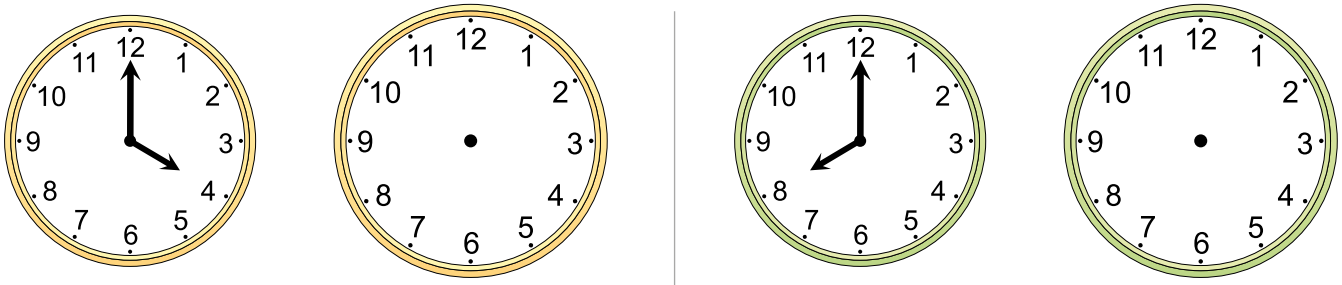
Mij tsåahka bielie 4 heannede? _____

Gusnie gaahtoe tsåahka 5? _____

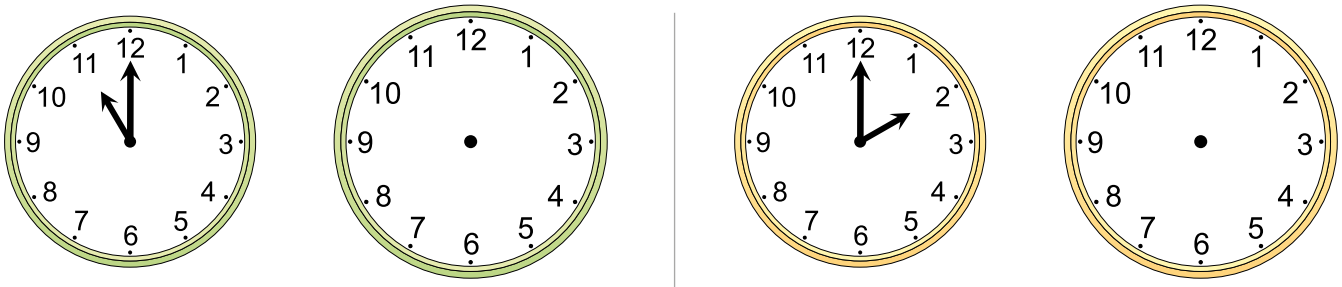
Maam bïenje tsåahka 4 dorje? _____

Maam gaahtoe tsåahka 7 dorje? _____

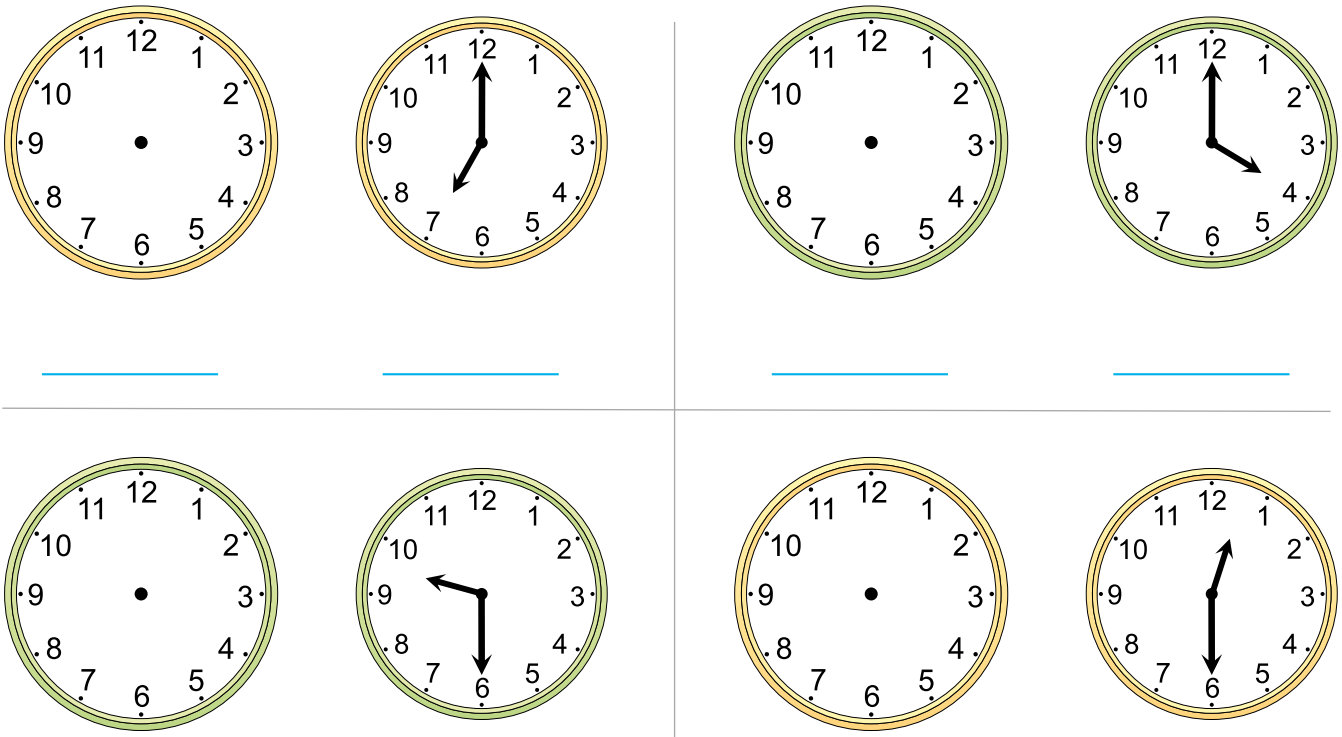
[·] Guvvedh væjserh jïh tjaelieh tæjmojde. Mennie mieresne tsåahka göökte tæjmosne?



[··] Mennie mieresne tsåahka golme tæjmosne?



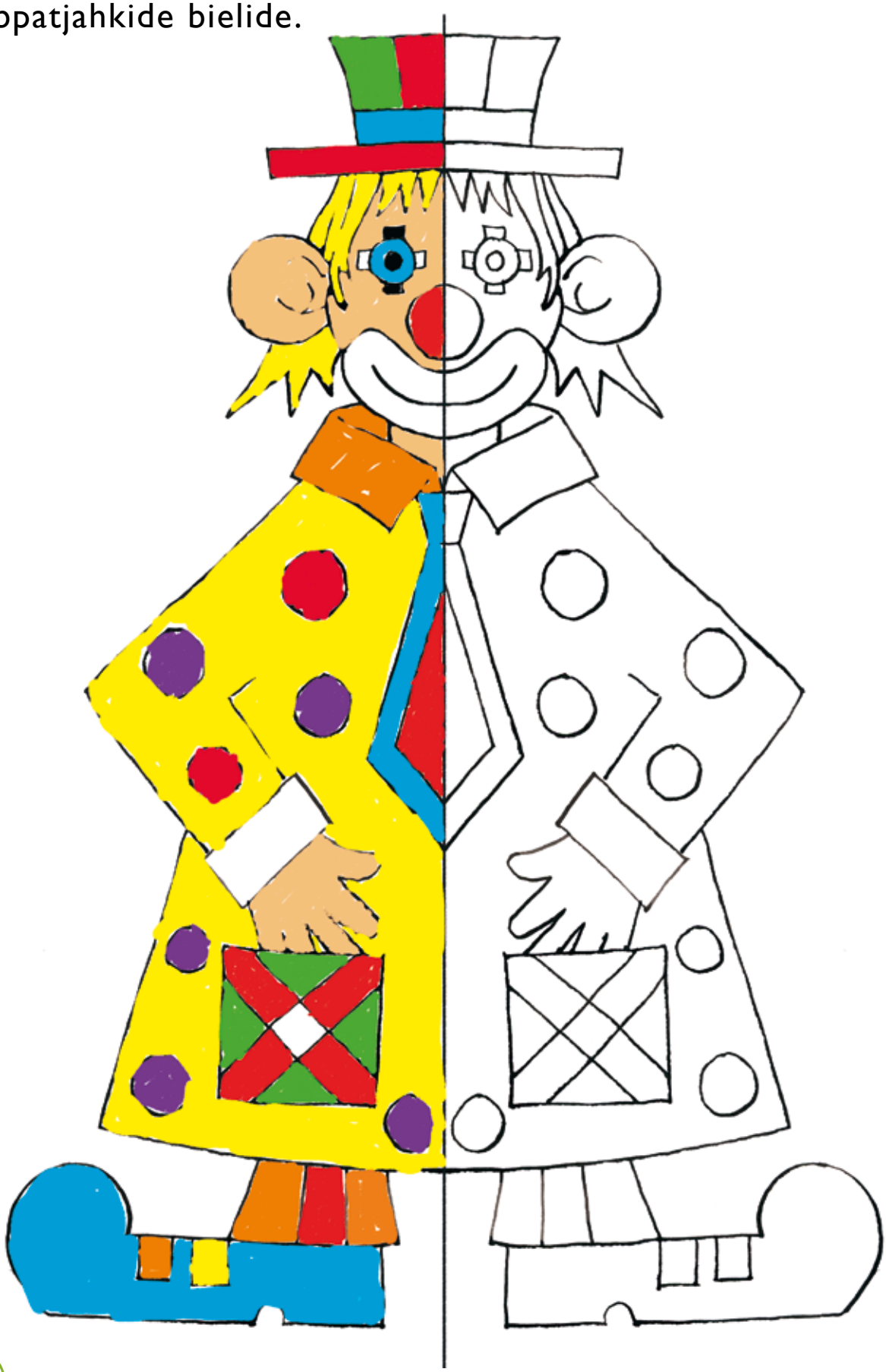
[∴] Mennie mieresne tsåahka bielie tæjmoen åvtelen?



• Guvvedh væjserh mennie mieresne tsåahka göökte tæjmosne. Årroeh eensi-laakan gosse joekehtassem tæjmoe- jïh minudte-væjseri gaskem tjaalah. Tjaelieh tsåahkaj tæjmojde tsåahkaj nualan. •• Guvvedh væjserh mennie mieresne tsåahka golme tæjmosne. Årroeh eensi-laakan gosse joekehtassem tæjmoe- jïh minudte-væjseri gaskem tjaalah. Tjaelieh tsåahkaj tæjmojde tsåahkaj nualan. ∴ Guvvedh væjserh mennie mieresne tsåahka bielie tæjmoen juassah. Årroeh eensi-laakan gosse joekehtassem tæjmoe- jïh minudte-væjseri gaskem tjaalah. Tjaelieh tsåahkaj tæjmojde tsåahkaj nualan.

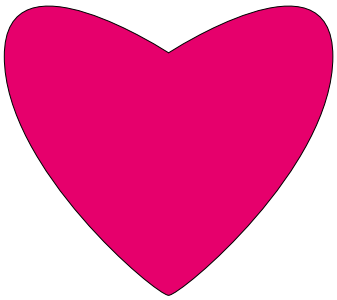
8 SYMMETRIJE

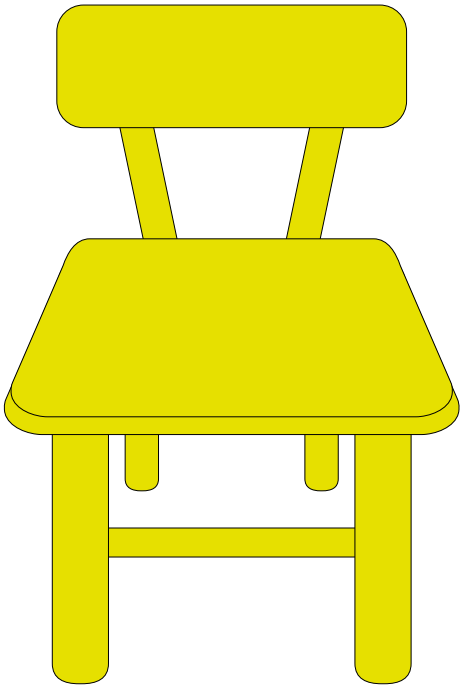
[·] Klaeredh seamma-laakan symmetrije-sïeven gåabpatjahkide bielide.

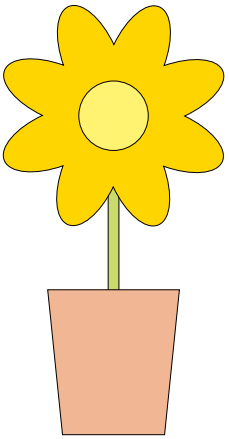


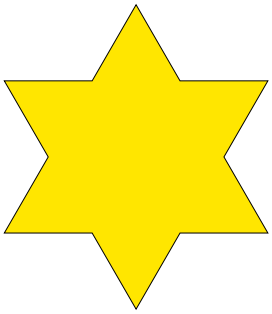
• Klaeredh skaadtjem juktie seamma-laakan symmetrije-sïeven gåabpatjahkide bielide.

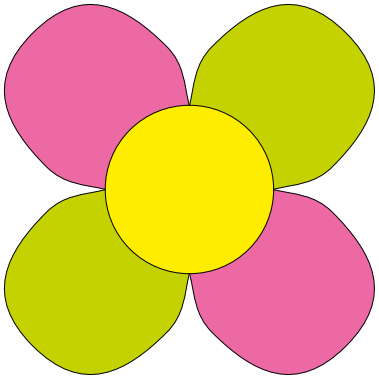
[·] Guvvedh symmetrije-sïevh.

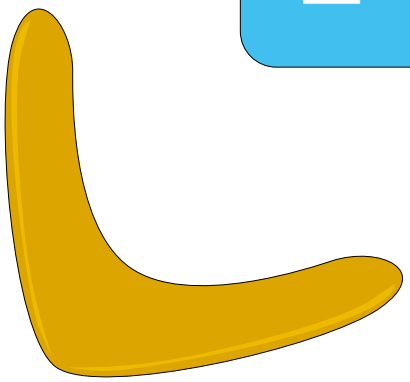






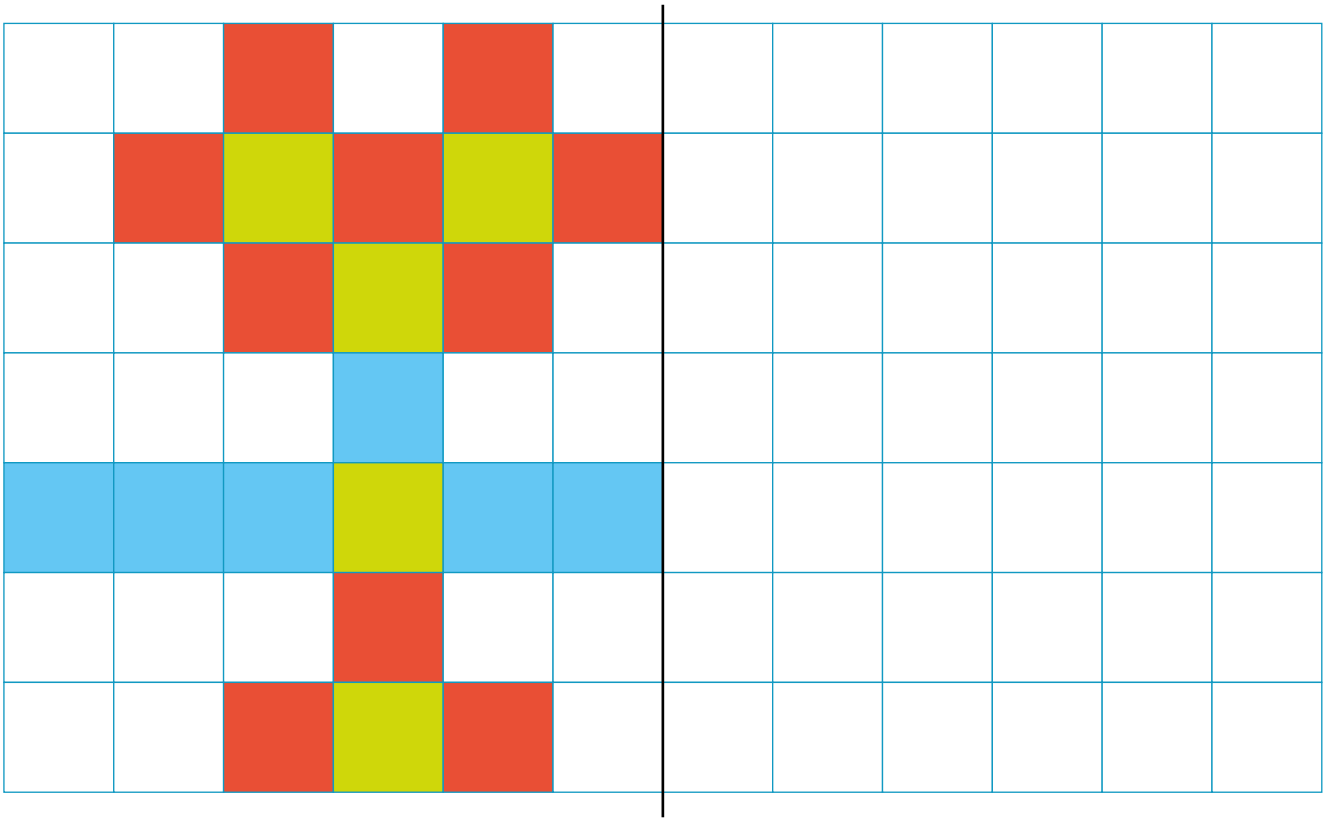




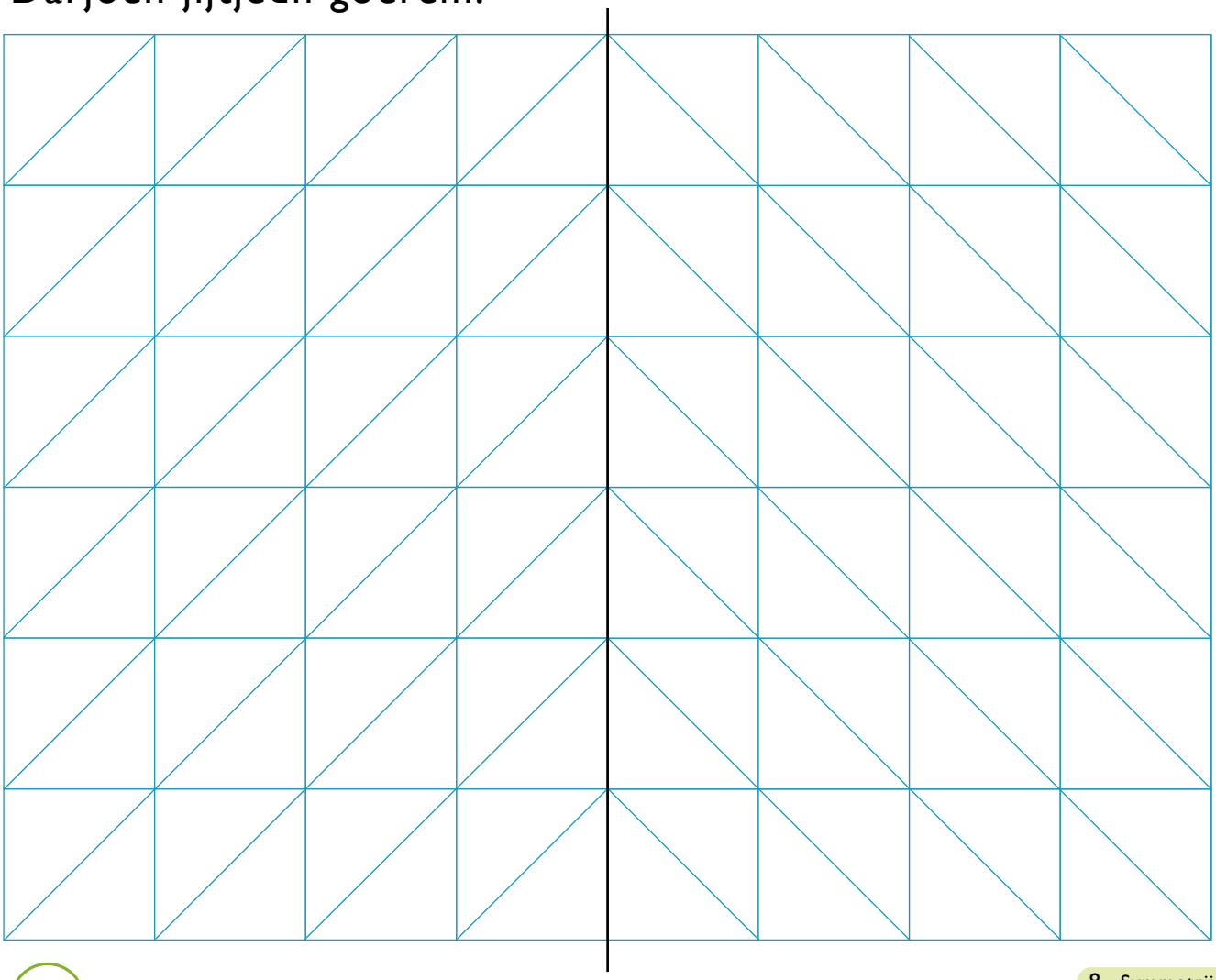


• Darjoeh sïevh (symmetrije-sïevh) mah haemide göökte seamma-laaketje guelmiedihks bielide juekieh.

[·] Guelmedh haemiem symmetrije-sïeven bïjre.



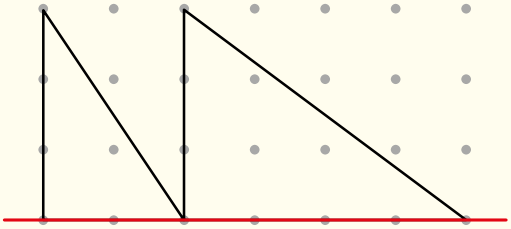
[··] Darjoeh jïjtjedh goerem.

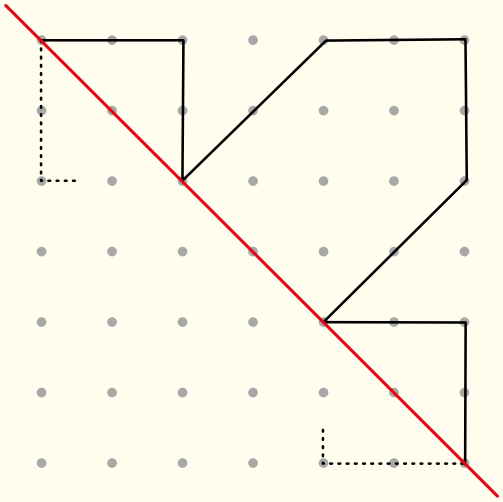


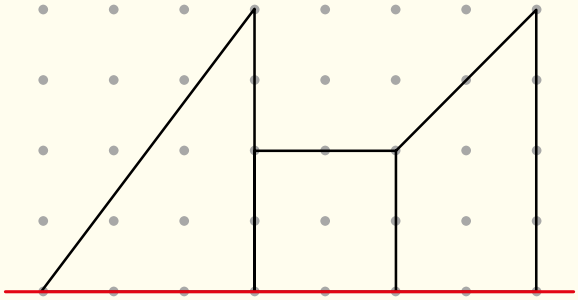
• Klaeredh rovhtide symmetrije-sïeven mubpien bealan guktie guvvie guelmiedihks sjædta.

•• Veeljh klaeride jïjtje, jih darjoeh symmetriske (guelmiedihks) goerh.

[·] Guelmedh haemide symmetrije-sïeven bïjre.



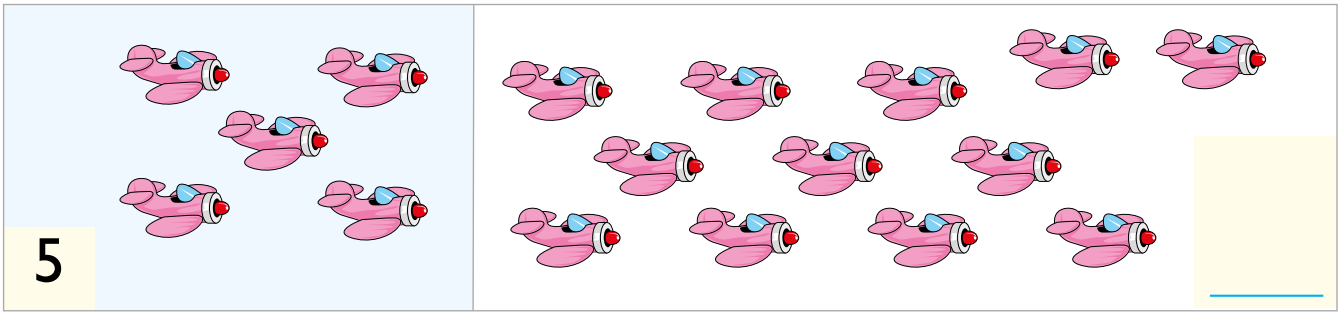


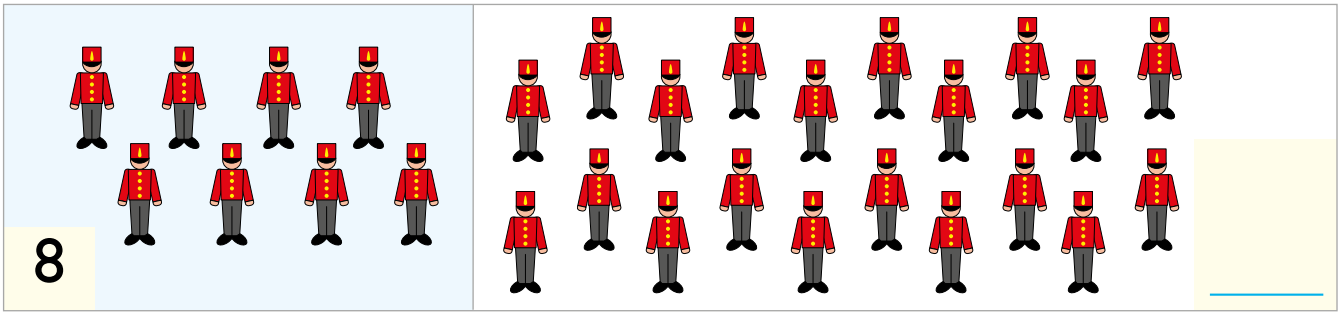


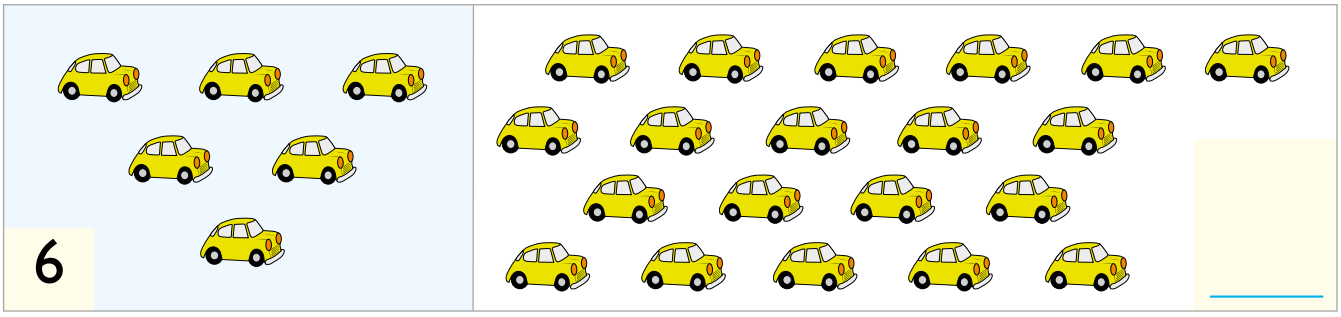
• Guvvedh haemide riejries guktie symmetriske sjidtieh. Provhkh treblide aarhkesne guktie gaavnedh gusnie sïevh edtjieh juhtedh.

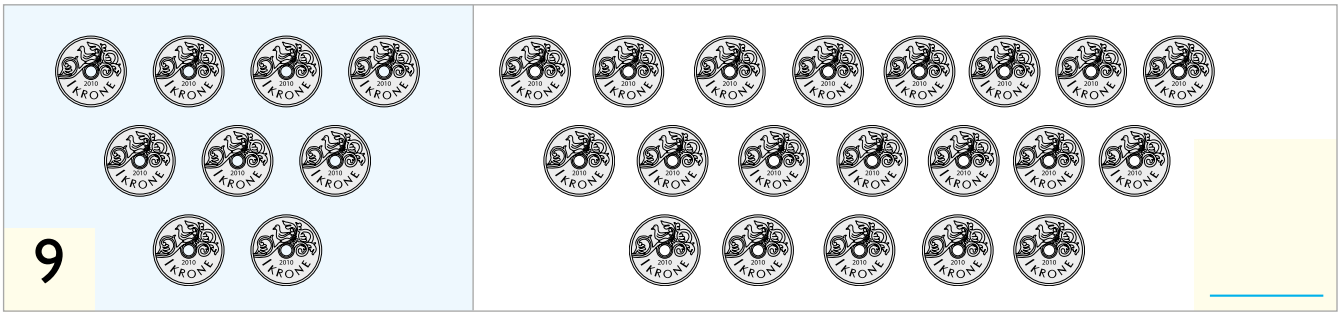
9 GEARTOME JÏH BIELIEDIMMIE - PAARRE-TAALH JÏH ODDE-TAALH

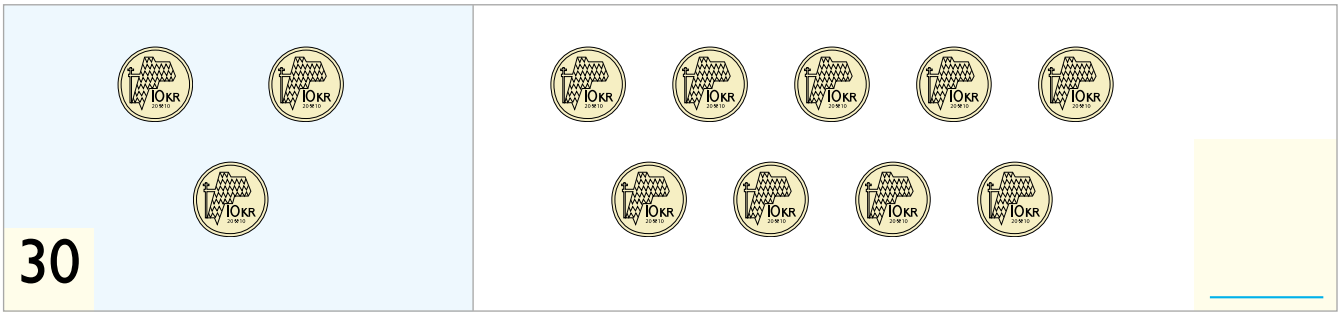
[·] Gievledh guektien gïerth jeenebi bïjre.
Tjaelieh vaastoem.











• Gievledh guektien gïerth jeenebi gaevniej bïjre guktie gårroeh bielien rovhtesne. Tjaelieh taalem.

[·] Gaavnh guektien gïerth.

15 kr

_____ kr

25 kr

_____ kr

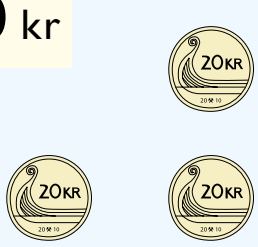
32 kr

_____ kr

45 kr

_____ kr

60 kr



_____ kr

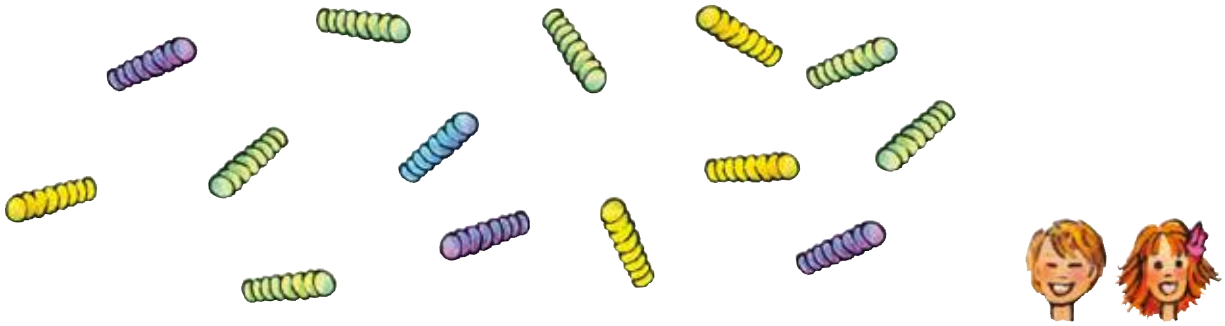
• Guvvedh guektien gïerth jeenebh beetnegh guktie gårroeh bielien rovhtesne. Tjaelieh taalem.

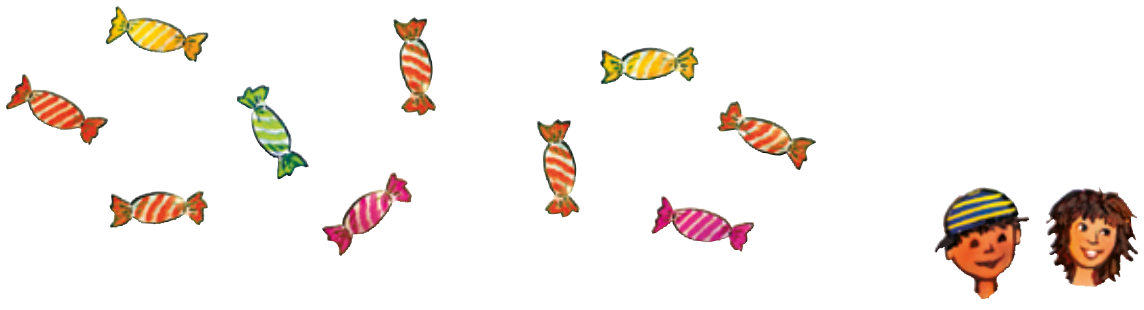
[·] Juekieh göökten guajman. Klaeredh bæjngolds-vaarjojde.

6 spïelijh, _____ fierhtene gujmesne.

12 spïelijh, _____ fierhtene gujmesne.

[··] Man gellie fiere-guhte åådtje?



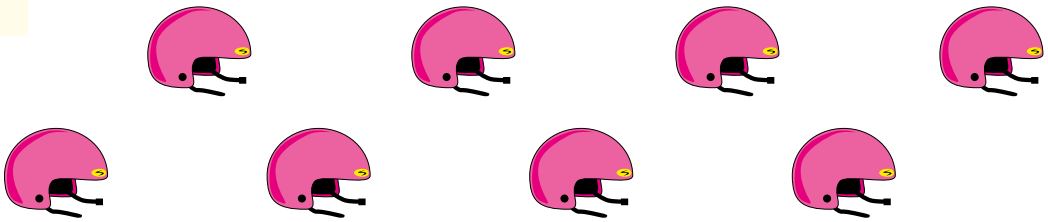


10 gåahtah, _____ fiere-guhtese.

• Juekieh göökte guejmide seamma jeenh spïelijh fierhtene guejmesne. Klaeredh bæjngolds-vaarjojde göökte ovmessie klaeride mij vuesehte mennie guejmesne fiere guhte. •• Juekieh gåahtide göökte seamma stoere veahkide.

[·] Gievledh lehkien bïjre. Tjaelieh vaastoem.

8



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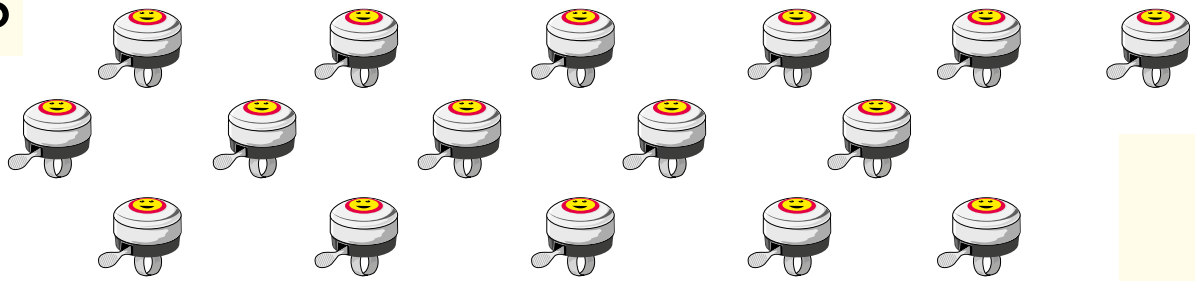

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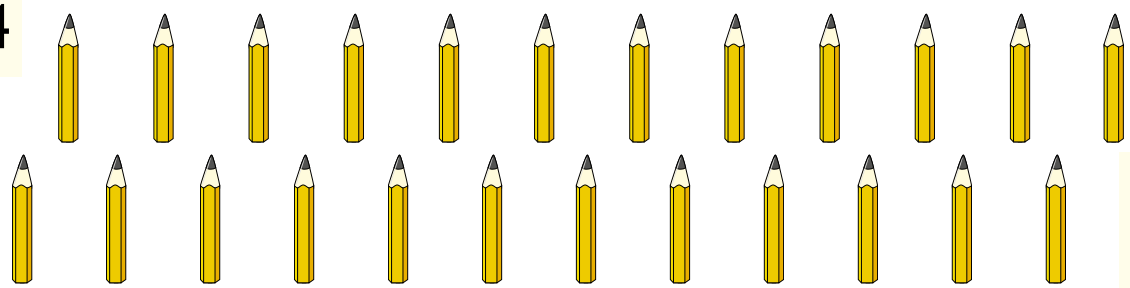

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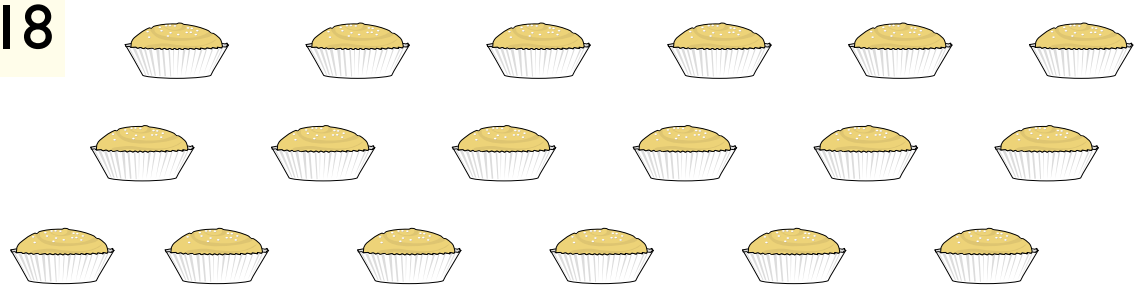

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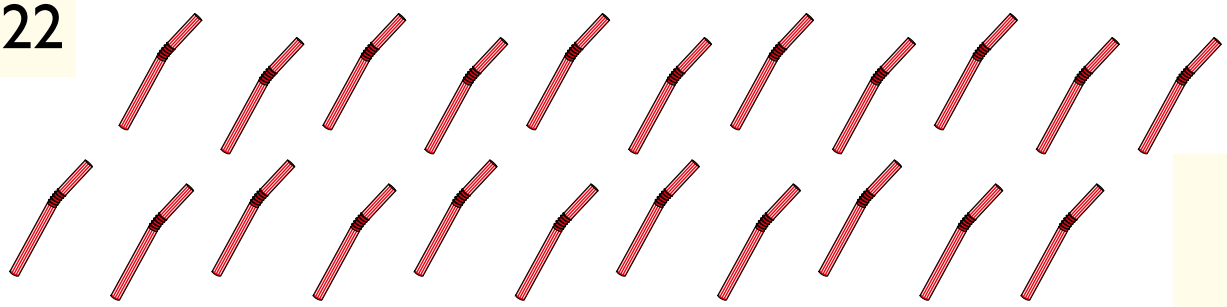

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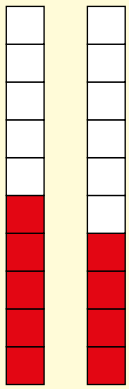
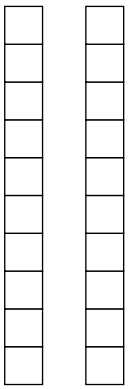


paarre-taalh/odde-taalh

12



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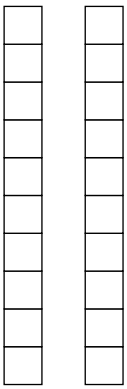
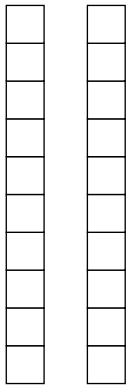


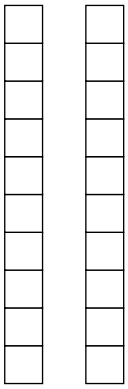
paarre-taalh/odde-taalh

13



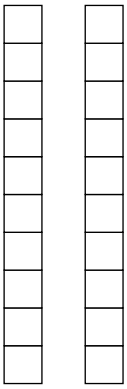
paarre-taalh/odde-taalh

16



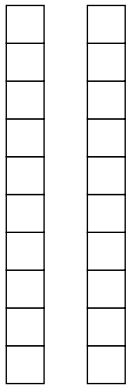
paarre-taalh/odde-taalh

18



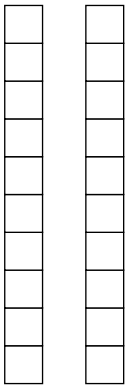
paarre-taalh/odde-taalh

19



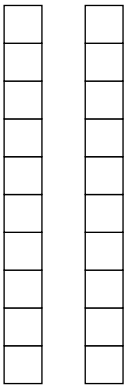
paarre-taalh/odde-taalh

15



paarre-taalh/odde-taalh

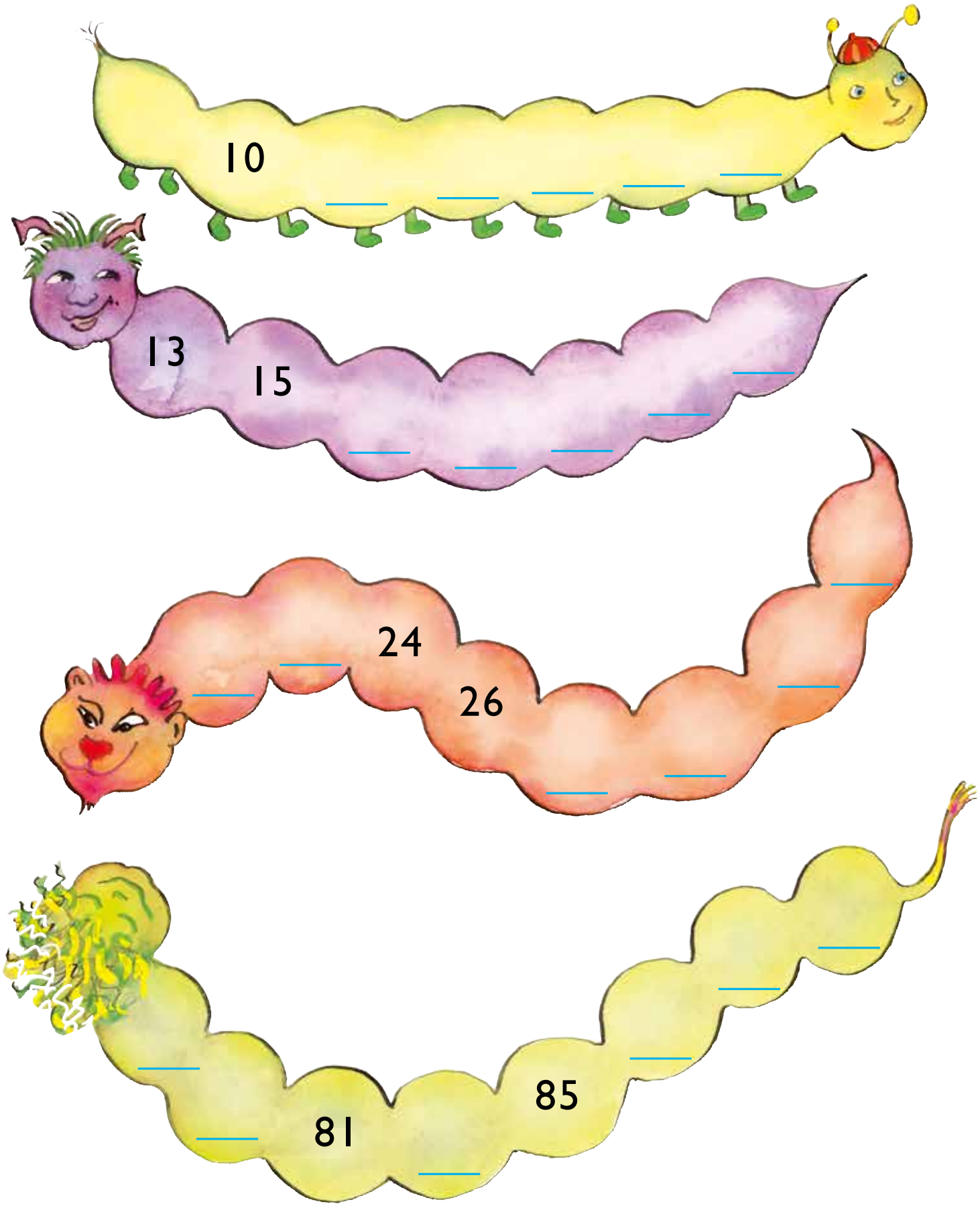
17



paarre-taalh/odde-taalh

• Goerehth mejtie taalh paarre-taalh jallh odde-taalh gosse göökte seamma jolle tåarnh klaeredh.
Gievledh riektes baakoen bijre.

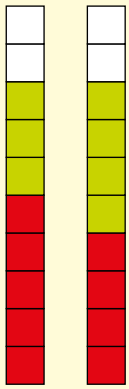
[·] Tjaelieh taalide mah fååtesieh.



· Illedh taale-bååresidie.

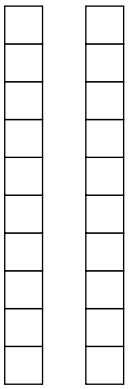
[·] Klaeredh rïektes låhkoe rovhth.

9 + 7 = 16



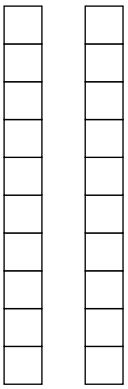
paarre-taalh/odde-taalh

10 + 4 = ____



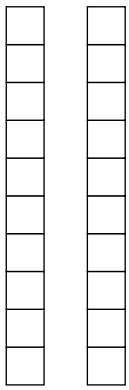
paarre-taalh/odde-taalh

8 + 5 = ____



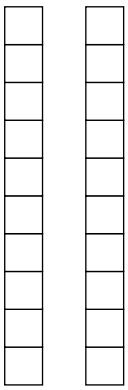
paarre-taalh/odde-taalh

6 + 12 = ____



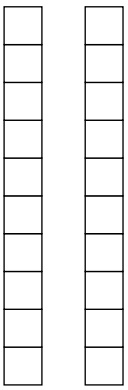
paarre-taalh/odde-taalh

8 + 9 = ____



paarre-taalh/odde-taalh

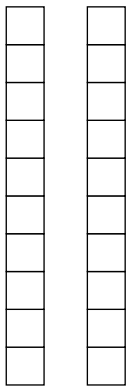
5 + 11 = ____



paarre-taalh/odde-taalh

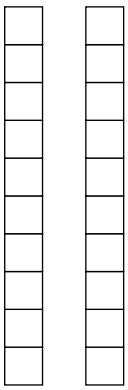
[··] Veeljh taalh jïjtje.

____ + ____ = ____



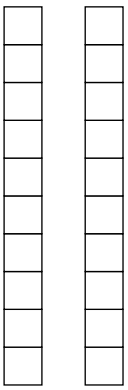
paarre-taalh/odde-taalh

____ + ____ = ____



paarre-taalh/odde-taalh

____ + ____ = ____



paarre-taalh/odde-taalh

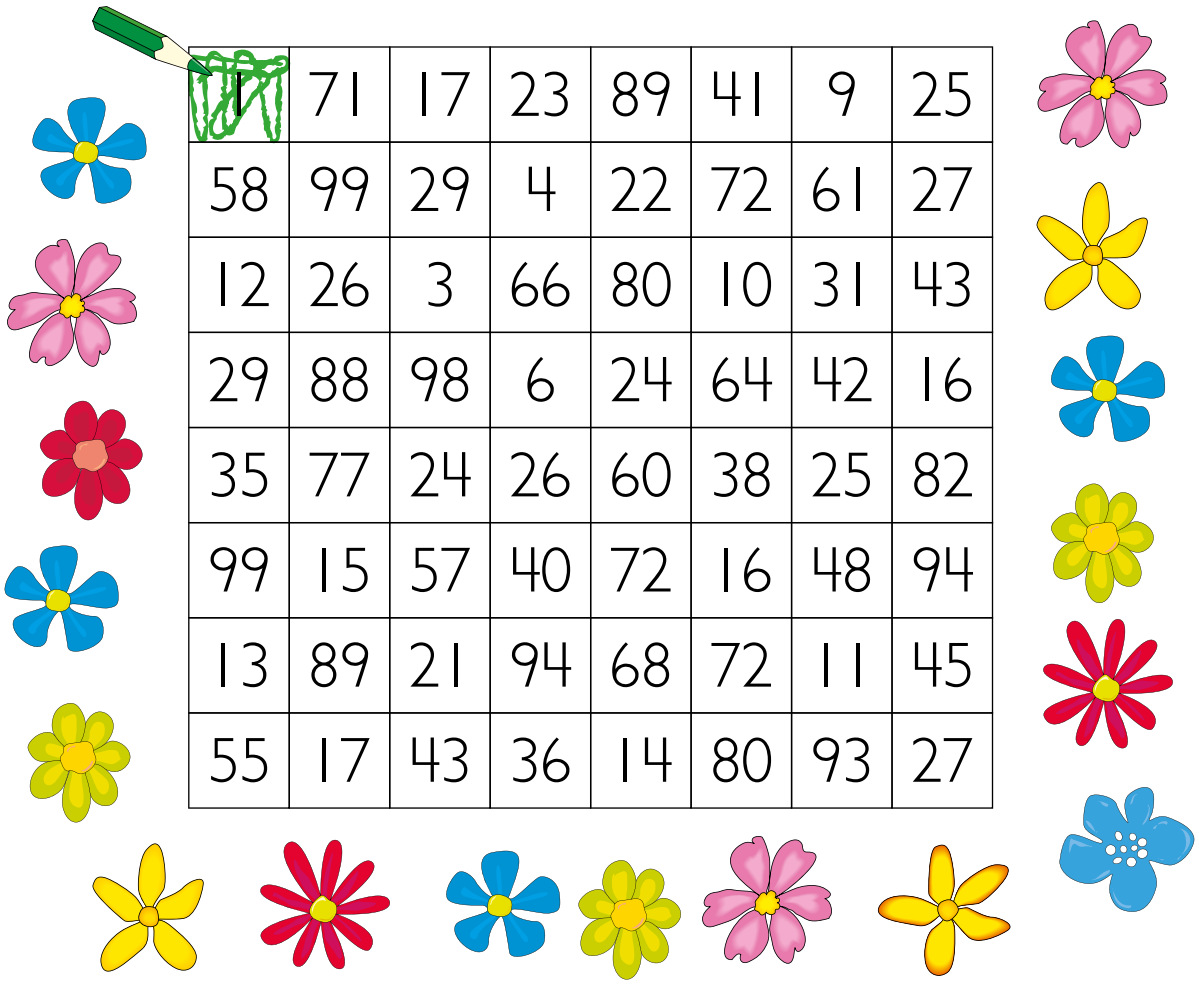
• Goerehth mejtie taalh paarre-taalh jallh odde-taalh gosse göökte seamma jolle tåarnh klaeredh. Gievledh rïektes baakoen bïjre.

•• Veeljh ryökneme-boelhkem jïjtje jïh darjoeh guktie [.] darjoejih.

[·] Ryöknedh. Mejtie vaastoe paarre-taale jallh odde-taale?

11 + 5 = 16 paarre-taalh/odde-taalh	32 + 7 = ____ paarre-taalh/odde-taalh
18 + 4 = ____ paarre-taalh/odde-taalh	41 + 13 = ____ paarre-taalh/odde-taalh
23 + 6 = ____ paarre-taalh/odde-taalh	56 + 31 = ____ paarre-taalh/odde-taalh
14 + 21 = ____ paarre-taalh/odde-taalh	23 + 25 = ____ paarre-taalh/odde-taalh

[··] Klaeredh odde-taalide.

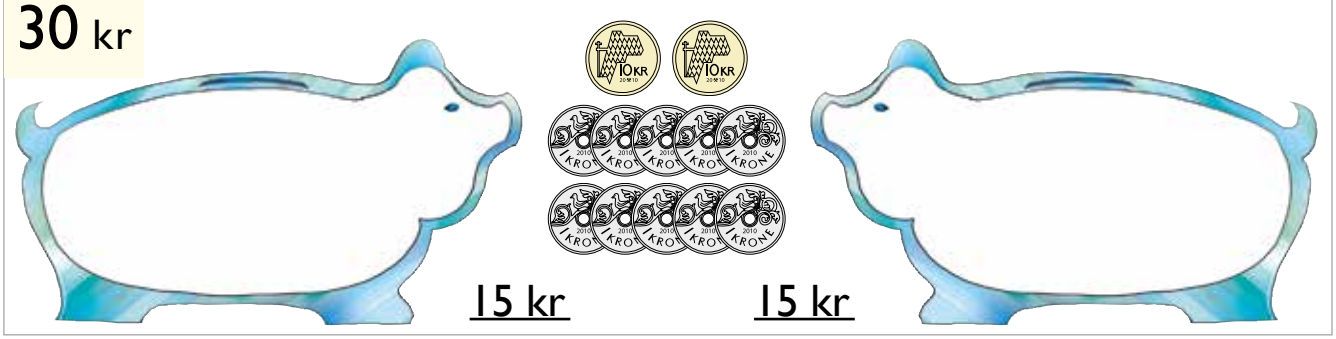


11	71	17	23	89	41	9	25
58	99	29	4	22	72	61	27
12	26	3	66	80	10	31	43
29	88	98	6	24	64	42	16
35	77	24	26	60	38	25	82
99	15	57	40	72	16	48	94
13	89	21	94	68	72	11	45
55	17	43	36	14	80	93	27

· Ryöknedh vaastojde. Mejtie odde-taalh jallh paarre-taalh? Gievledh rïektes reaktoe baakoen bïjre.
·· Klaeredh odde-taalide rovhte-vearman.

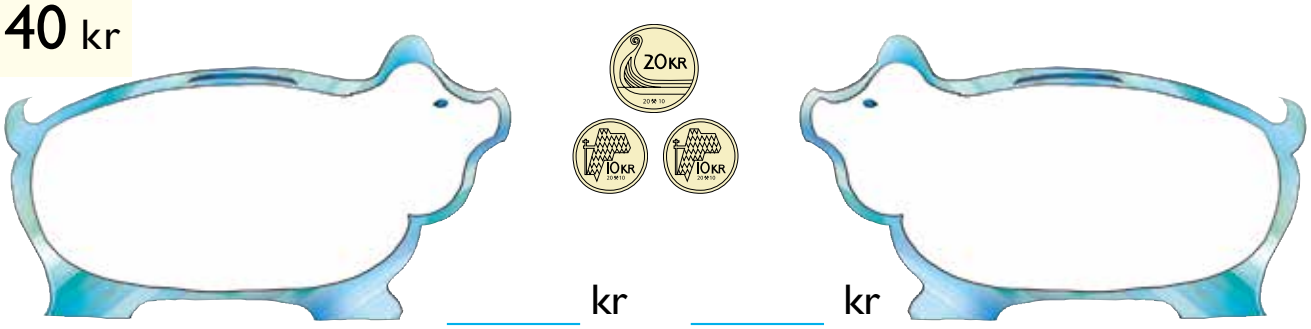
[·] Juekieh beetnegidie seamma jeene spååreme-snurhkide.

30 kr



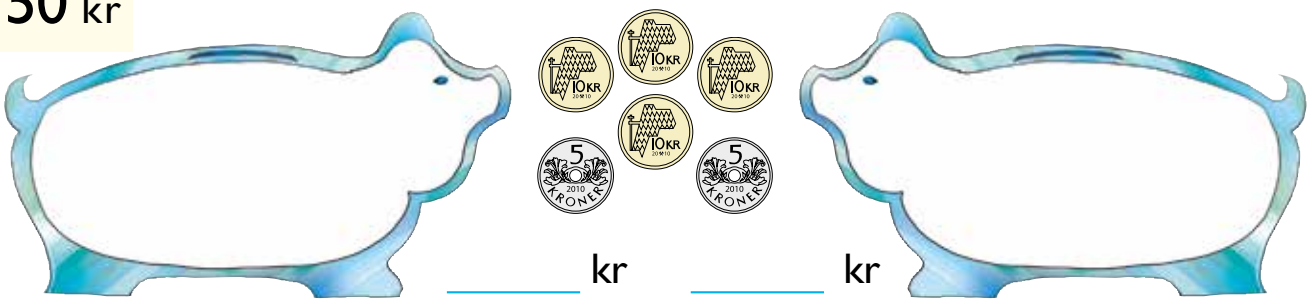
15 kr 15 kr

40 kr



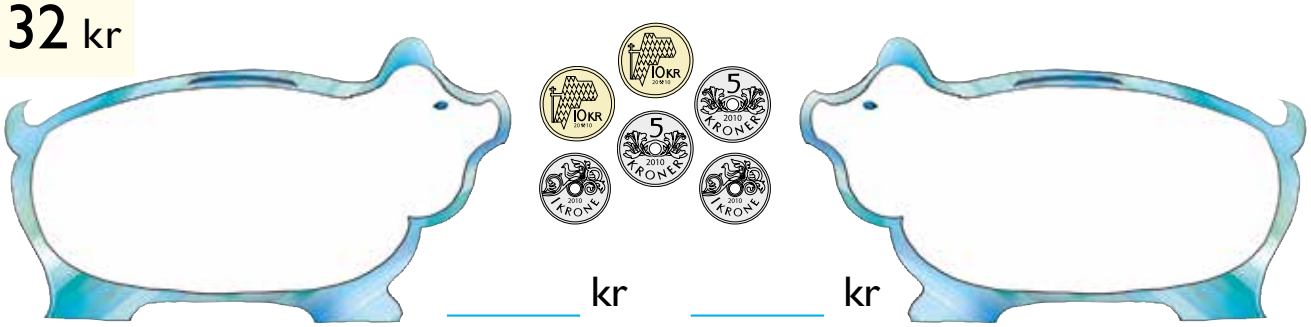
_____ kr _____ kr

50 kr



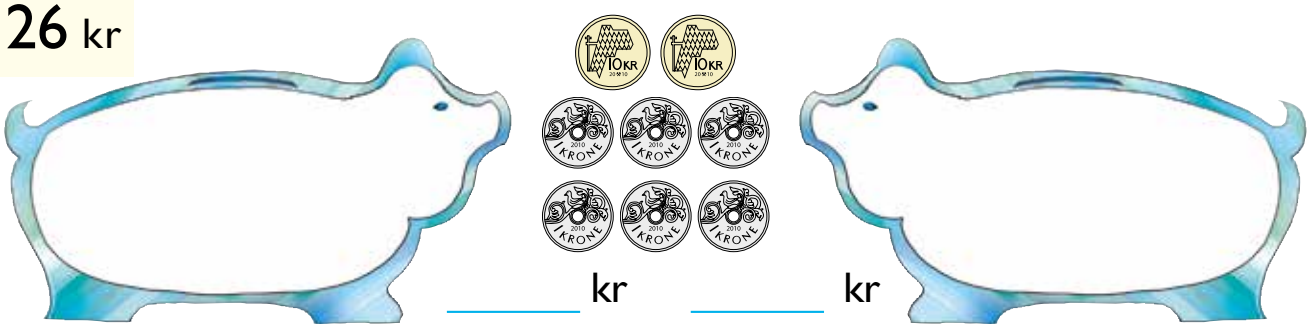
_____ kr _____ kr

32 kr



_____ kr _____ kr

26 kr



_____ kr _____ kr

• Guvvedh lehkiem beetnegijstie fierhten spååreme-snurhkese. Tjaelieh minngemes krávnaj tjåenghkiem fierhten spååreme-snurkese.

[·] Tjaelieh gaajhkh paarre-taalide 30 jïh 50 gaskem.

[··] Tjaelieh gaajhkh odde-taalide 50 jïh 70 gaskem.

[∴] Mij guektien gïerth?

8 16	22 ____	40 ____
10 ____	25 ____	50 ____
12 ____	14 ____	33 ____
20 ____	30 ____	45 ____

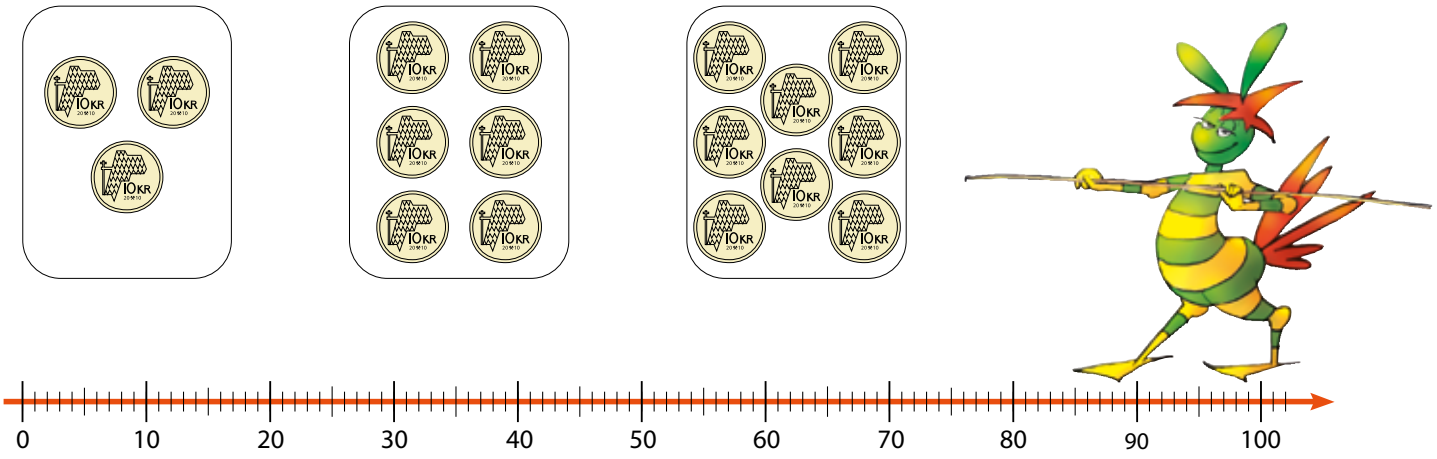
[∷] Mij lehkie?

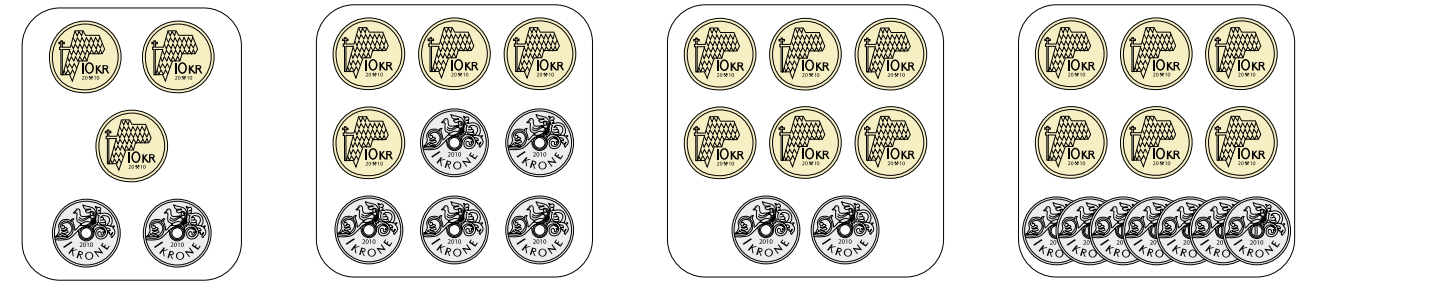
10 ____	42 ____	46 ____
4 ____	24 ____	62 ____
12 ____	18 ____	82 ____
20 ____	30 ____	70 ____

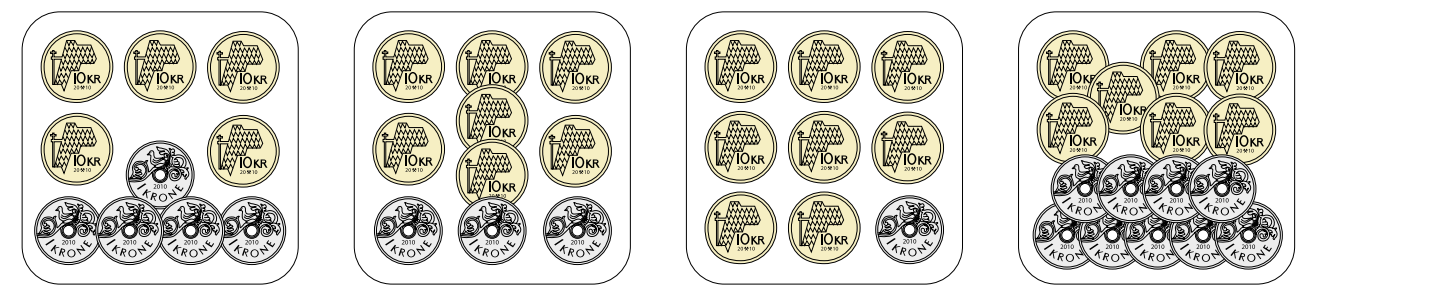
· Tjaelieh gaajhkh paarre-taalide gaskem 30 jïh 50. Provhkh komma-væhtam fierhten taalen gaskem. ·· Tjaelieh odde-taalide gaskem 50 jïh 70. Provhkh komma-væhtam fierhten taalen gaskem. ∴ Tjaelieh taalide mah guektien gïerth stuerebe.
∷ Tjaelieh taalide mah lehkien unnebe.

10 RYÖKNEDIDH TAALESE 100

[·] Darjoeh siievh taale-siievese.

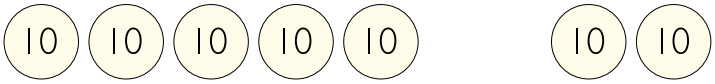






• Gaavnh tjåenghkiem kråvnijste jih darjoeh siievh taale-siievese.

[·] Man gellie kråvnah ektesne?

50 + 20 =  = _____ kr

30 + 10 = = _____ kr

40 + 30 = = _____ kr

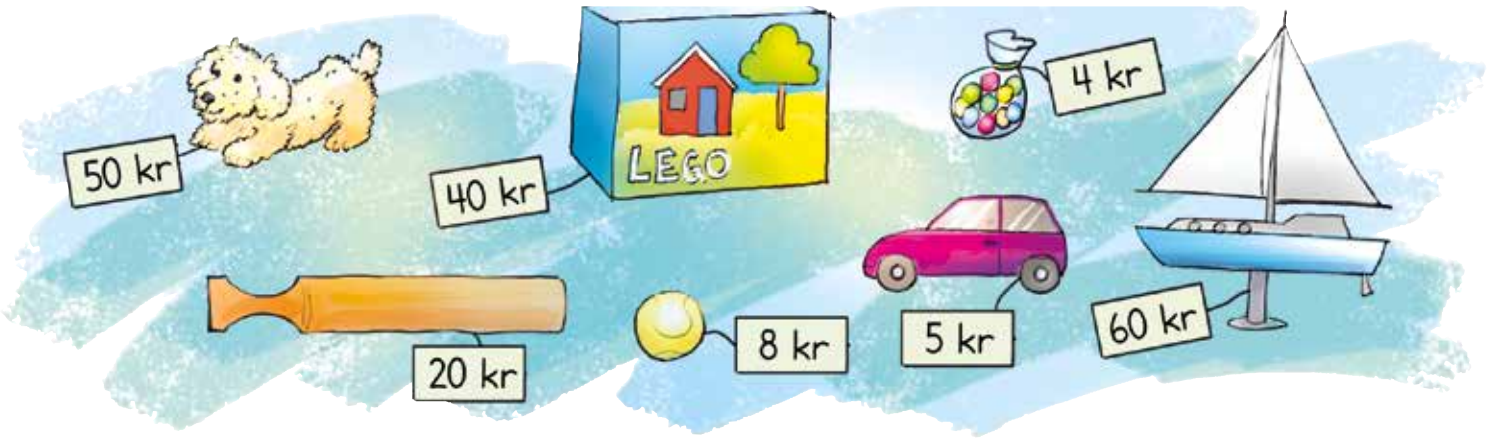
20 + 20 = = _____ kr

30 + 70 = = _____ kr

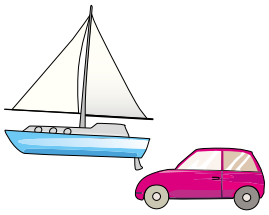
30 + 24 = = _____ kr

[··] Ryöknedh.

20 + 40 = _____	30 + 30 = _____	60 +30 = _____
40 + 40 = _____	30 + 20 = _____	10 + 90 = _____
40 + 50 = _____	10 + 80 = _____	20 + 80 = _____
40 + 60 = _____	20 + 70 = _____	50 + 30 = _____
20 + 21 = _____	30 + 15 = _____	30 + 43 = _____
30 + 22 = _____	20 + 41 = _____	40 + 54 = _____

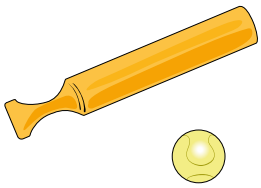


[·] Guvvedh beetnegidie jïh ryöknedh.

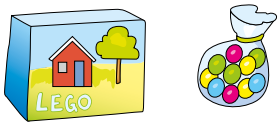


10 10 1 1
10 10 1 1
10 10 1

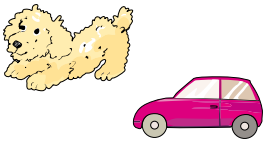
____ + ____ = ____ kr



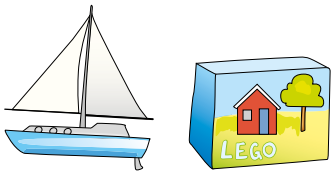
____ + ____ = ____ kr



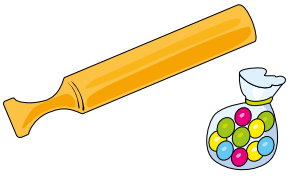
____ + ____ = ____ kr



____ + ____ = ____ kr



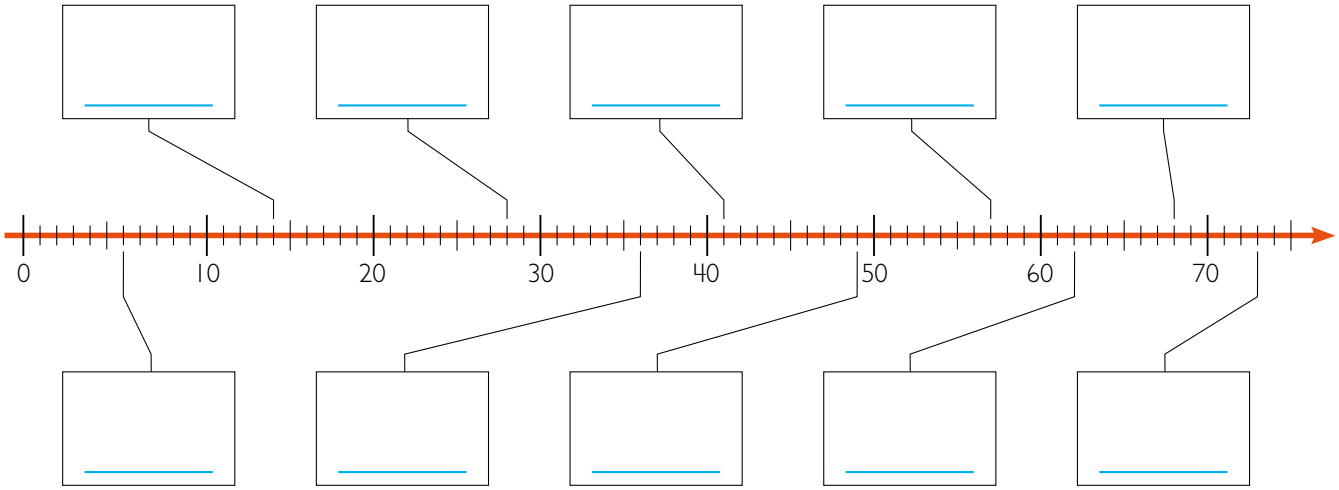
_____ kr



____ + ____ = ____ kr

• Gaavnh åasam, guvvedh beetnegidie jïh ryöknedh.

[·] Lohkh taale-sïevem.



[··] Darjoeh sïevh taale-sïevese.

42 49 63 74 89

37 58 77 99 92

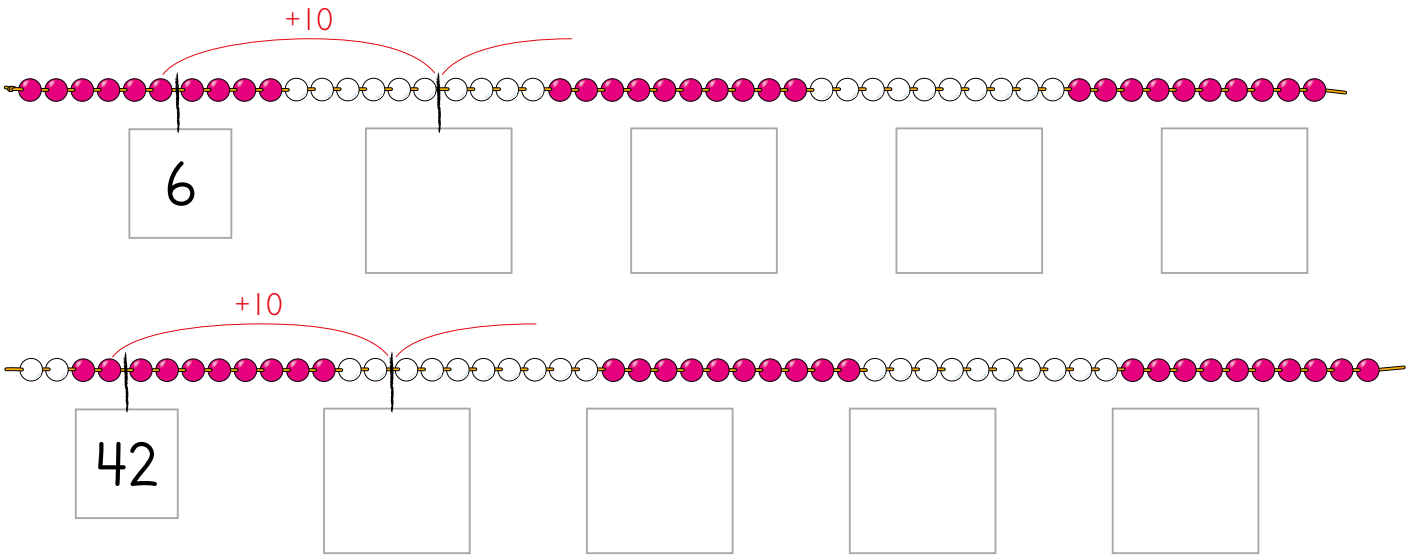
[∴] Darjoeh sïevh mahte dan rïektes sæjjan taale-sïevesne.

10 62 89

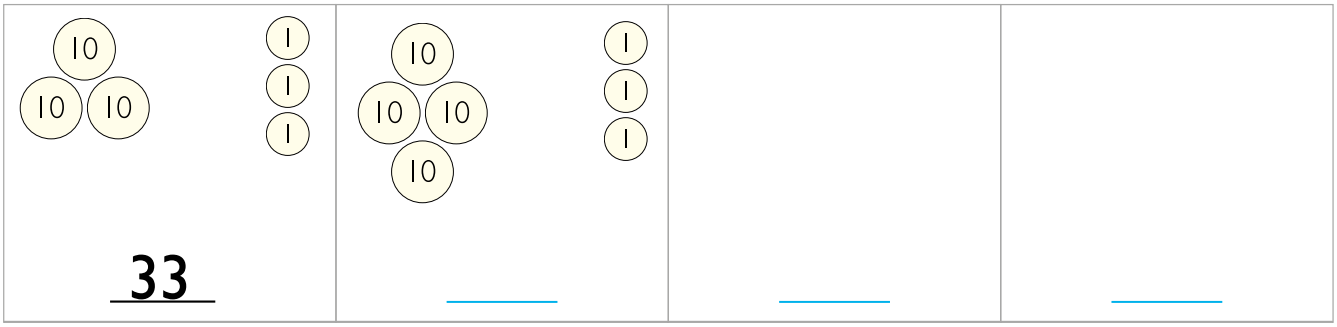
25 51 93

· Lohkh taale-sïevem jïh tjaelieh taalh rovhtide. ·· Darjoeh sïevh taale-sïevese.
∴ Darjoeh sïevh mahte dan rïektes sæjjan taale-sïevesne.

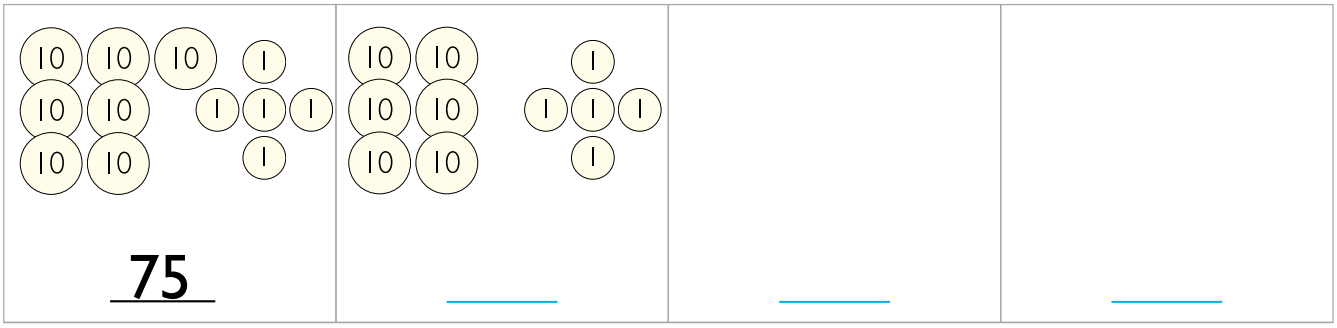
[·] Njulhtjh 10 fierhtene vaarosne.



[··] Bïejh 10 kråvnah fierhtene vaarosne.



[∴] Tramhkelh 10 kråvnah fierhtene vaarosne.

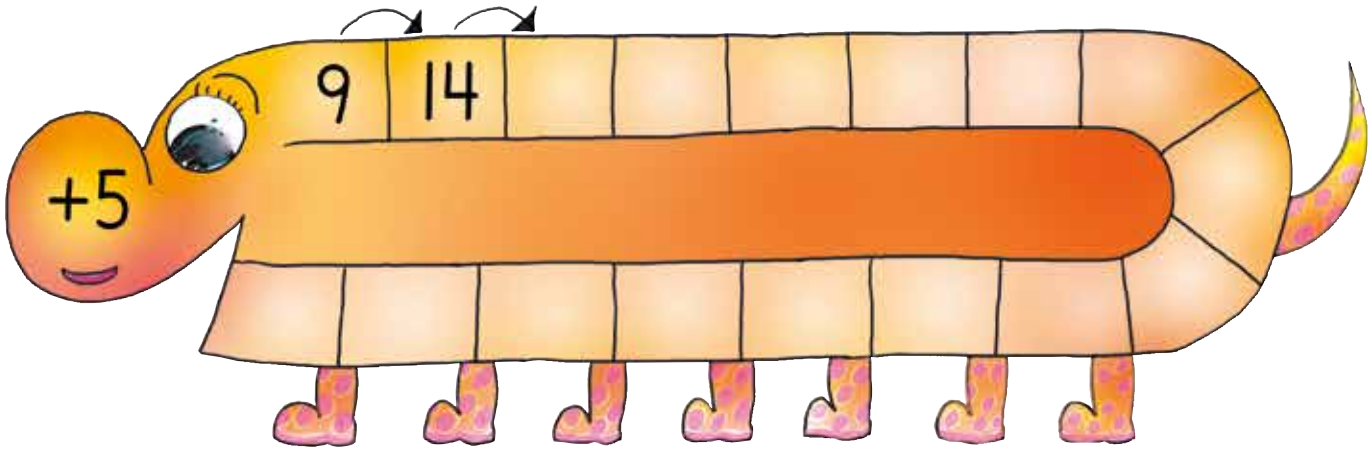


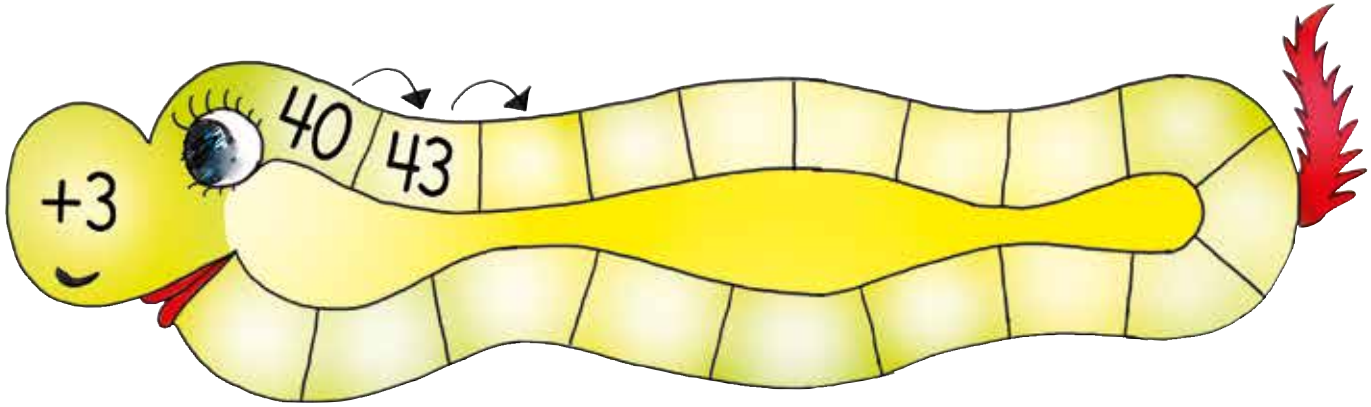
[⁖] Ryöknedh.

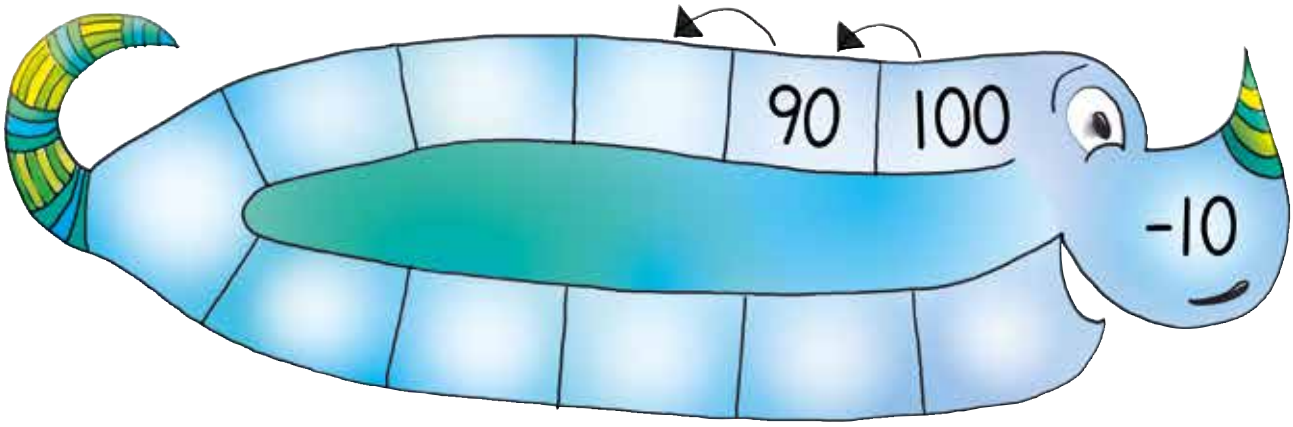
24 + 10 = ____	32 + 20 = ____	68 – 10 = ____
34 + 10 = ____	14 + 20 = ____	52 – 10 = ____
89 + 10 = ____	53 + 20 = ____	35 – 10 = ____

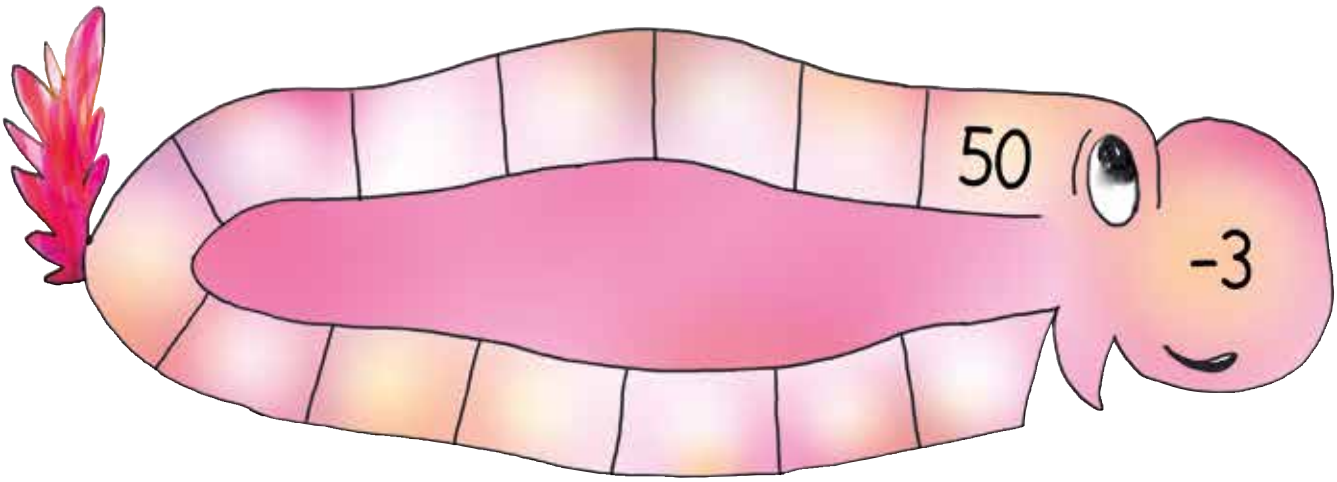
• Darjoeh siïevh guktie luhkie gearketjh fierhten siïeven gaskem sjædta. Tjaelieh taalh rovhtide. ·· Tjåenghkie 10 kråvnajgujmie fierhtene rovhtesne læssene. Guvvedh beetnegidie jïh tjaelieh tjåenghkiem. ∴ Tjåenghkie 10 kråvnajgujmie fierhtene rovhtesne vaanene. Guvvedh beetnegidie jïh tjaelieh tjåenghkiem. ⁖ Ryöknedh jïh tjaelieh vaastoem.

[·] Tjaelieh taalh rovhtide.



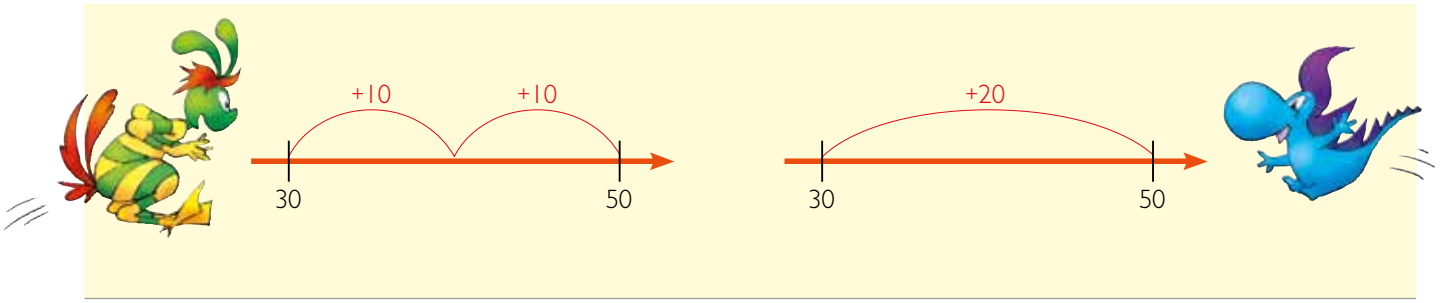






• Fierhten taale-bååråse læssene jallh vaanene stinkes låhkojne. Ryöknedh jïh tjaelieh taalide mah fåátesieh.

[·] Njulhtjh gåaroes taale-sïevesne. Tjaelieh vaastoem.



30 + 30 = ____

40 + 30 = ____

17 + 40 = ____

[··] Njulhtjh taale-sïevesne. Tjaelieh vaastoem.

36 + 15 = ____

68 + 19 = ____

·/·· Vuesehth taale-sïevesne guktie njulhtjh. Tjaelieh vaastoem.

[·] Njulhtjh taale-sïevesne. Tjaelieh vaastoem.

64 – 20 = ____

75 – 40 = ____

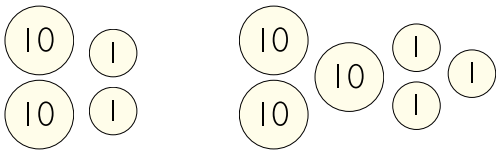
56 – 19 = ____

81 – 43 = ____

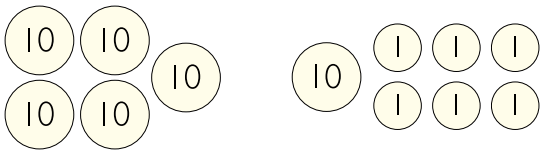
[··] Ryöknedh.

9 + 20 = ____	25 + 30 = ____	51 – 20 = ____
19 + 20 = ____	82 + 11 = ____	65 – 30 = ____
21 + 30 = ____	57 + 12 = ____	77 – 50 = ____
16 + 30 = ____	54 + 21 = ____	89 – 31 = ____
15 + 40 = ____	36 + 53 = ____	46 – 22 = ____

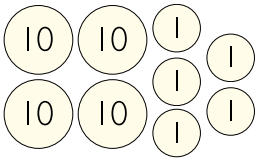
[·] Man jeene ektesne?



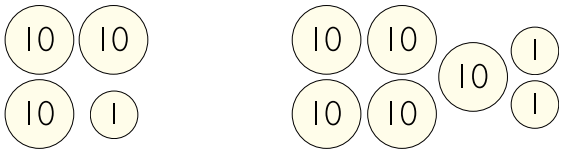
22 + 33 = ____



50 + ____ = ____



45 + 23 = ____



____ + ____ = ____

[··] Ryöknedh.

32 + 20 = ____
52 + 17 = ____
36 + 42 = ____
55 + 22 = ____

64 + 34 = ____
41 + 51 = ____
25 + 43 = ____
56 + 21 = ____

33 + 43 = ____
72 + 17 = ____
44 + 53 = ____
38 + 31 = ____

24 + 54 = ____
33 + 46 = ____
51 + 38 = ____

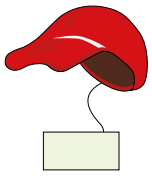
61 + 37 = ____
23 + 45 = ____
42 + 17 = ____

63 + 36 = ____
35 + 64 = ____
48 + 12 = ____

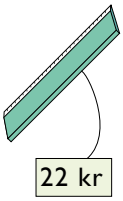
Man jeene aajmojne?

Dov leah: Datne åastah: Datne åastah:

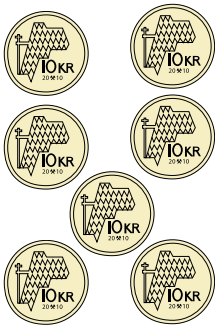
50 – ____ = ____ kr

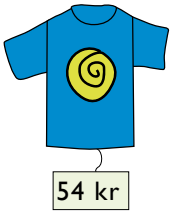


30 – ____ = ____ kr



40 – ____ = ____ kr



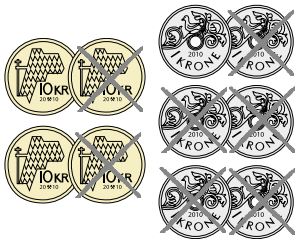


70 – ____ = ____ kr

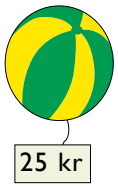
• Daesnie tjuara låhkegem tsööpkedh jis edtja maeksedh. Guvvedh krávnide maam åtnah gosse låhkegem tsööpkeme. Kroessedh dellie tjåenghkiem maam edtja maeksedh. Ryöknh minngemes beetnegidie mah aajmojne jih tjaelieh vaastoem.

[·] Man jeene dov leah aajmojne?

Dov leah:



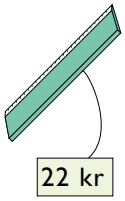
Datne åastah:



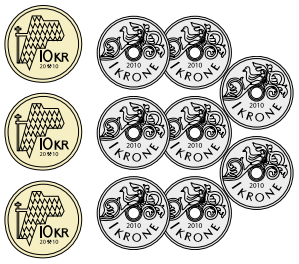
46 – 25 = _____ kr

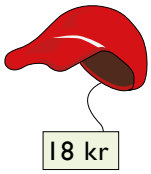
Dov leah:

Datne åastah:

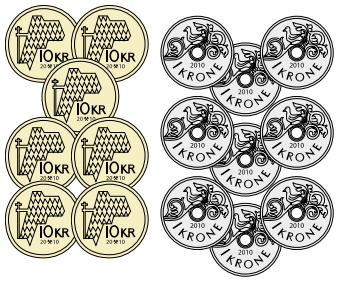


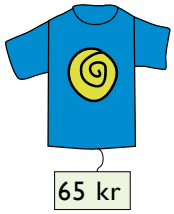
_____ – _____ = _____ kr





_____ – _____ = _____ kr





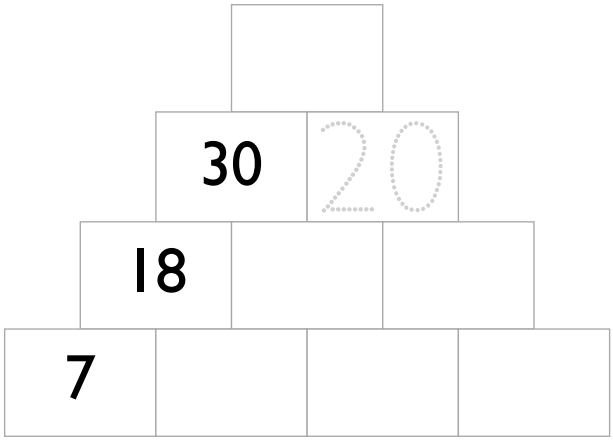
_____ – _____ = _____ kr

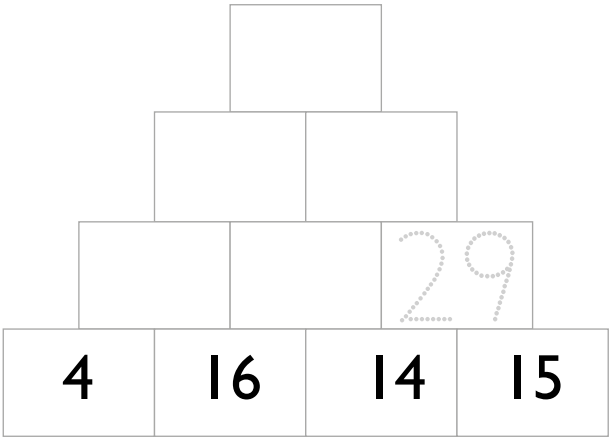
[··] Ryöknedh.

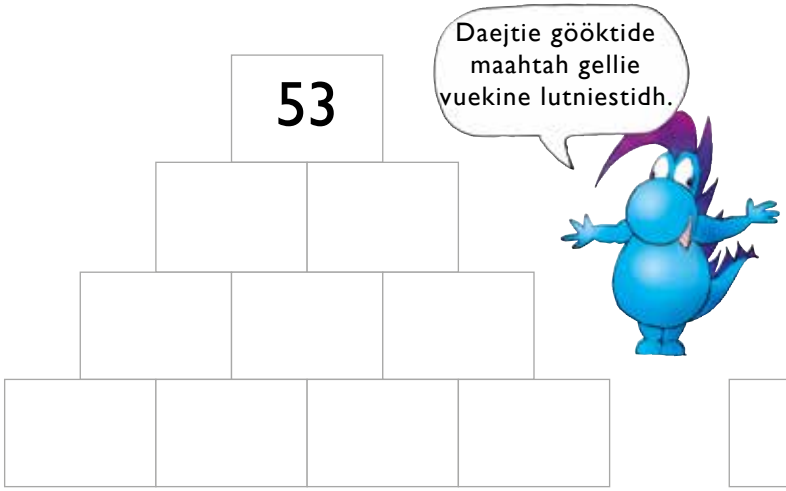
99 – 15 = _____	39 – 14 = _____	68 – 32 = _____
58 – 24 = _____	46 – 15 = _____	90 – 15 = _____
63 – 12 = _____	73 – 31 = _____	48 – 36 = _____
76 – 56 = _____	95 – 42 = _____	84 – 51 = _____
77 – 27 = _____	66 – 33 = _____	85 – 56 = _____
53 – 42 = _____	79 – 36 = _____	42 – 38 = _____
98 – 12 = _____	57 – 21 = _____	61 – 47 = _____

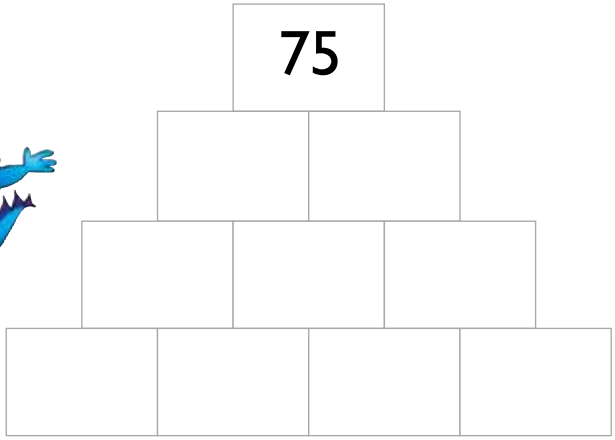
• Kroessedh tjåenghkiem maam edtjh maeksedh juktie vaastoem gaavnedh man jeenh beetnegh dov leah aajmojne gosse maakseme. Tjaelieh ryökneme-boelhkem jih tjaelieh vaastoem. •• Ryöknedh jih tjaelieh vaastoem.

[·] Gaavnh taalide gåaroes rovhtine.

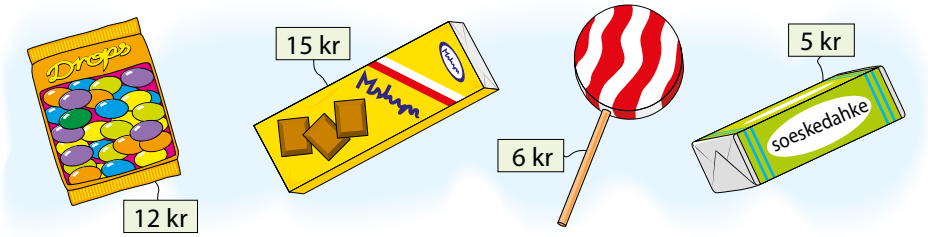








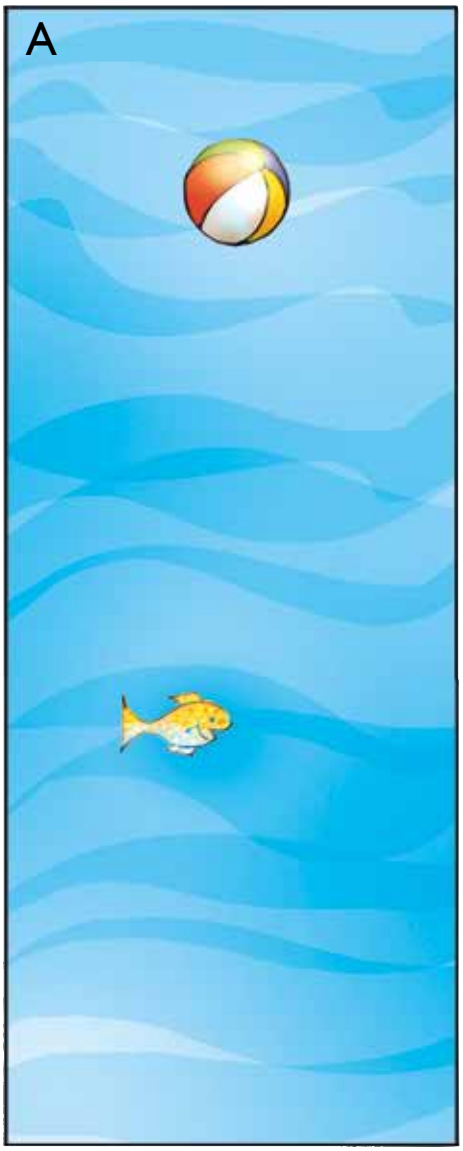
[··] Maam maahtah 50 kråvnaj åvteste åestedh?

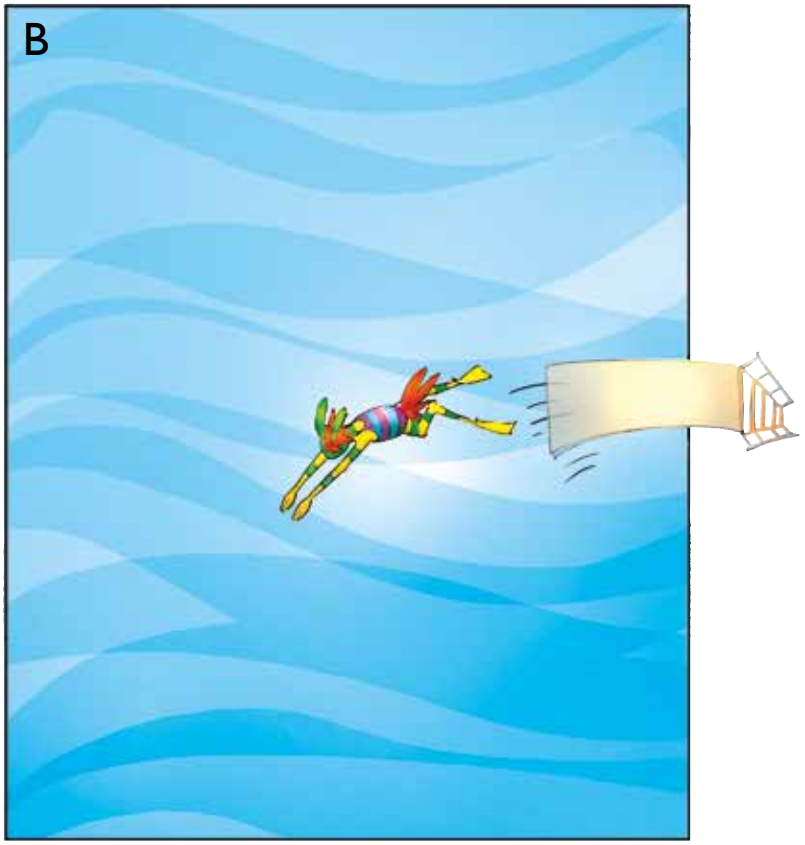


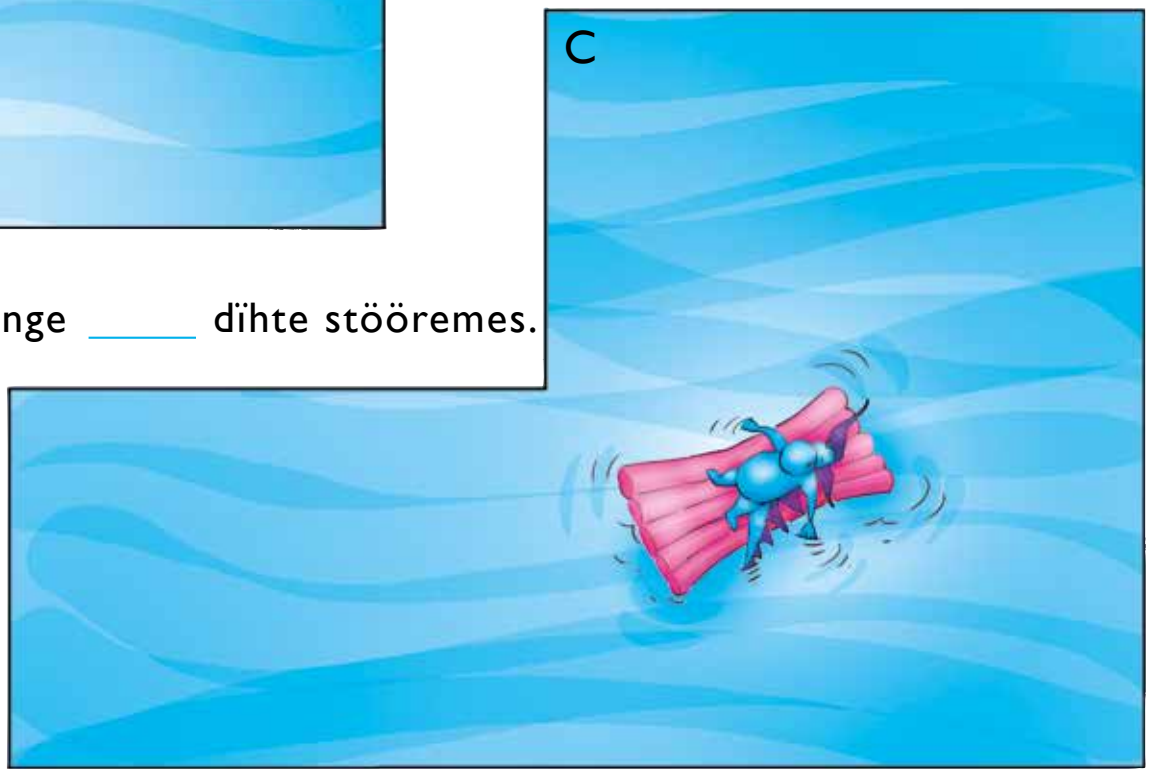
• Tjåenghkie göökte taalijste mah ektesne, dïhte taale sjædta dennie rovhtesne bijjelen. (Geahtjh: Dennie gårroeh bielesne bööremes pyramijden bijjie-gietjesne aelkedh eelleme åelkies bielesne bööremes vuelie-gietjesne aelkedh. Dah göökte vöölemes pyramijdine akte dennie bijjie-gietjesne aalka.) •• Maahtah gujhth gellie ovmessie raeriestimmieh darjodh, maam maahtah 50 kråvnaj åvteste åestedh.

11 AREAALE

[·] Mij laavkome-bassenge stööremes? Mïetesth skubpeginie.



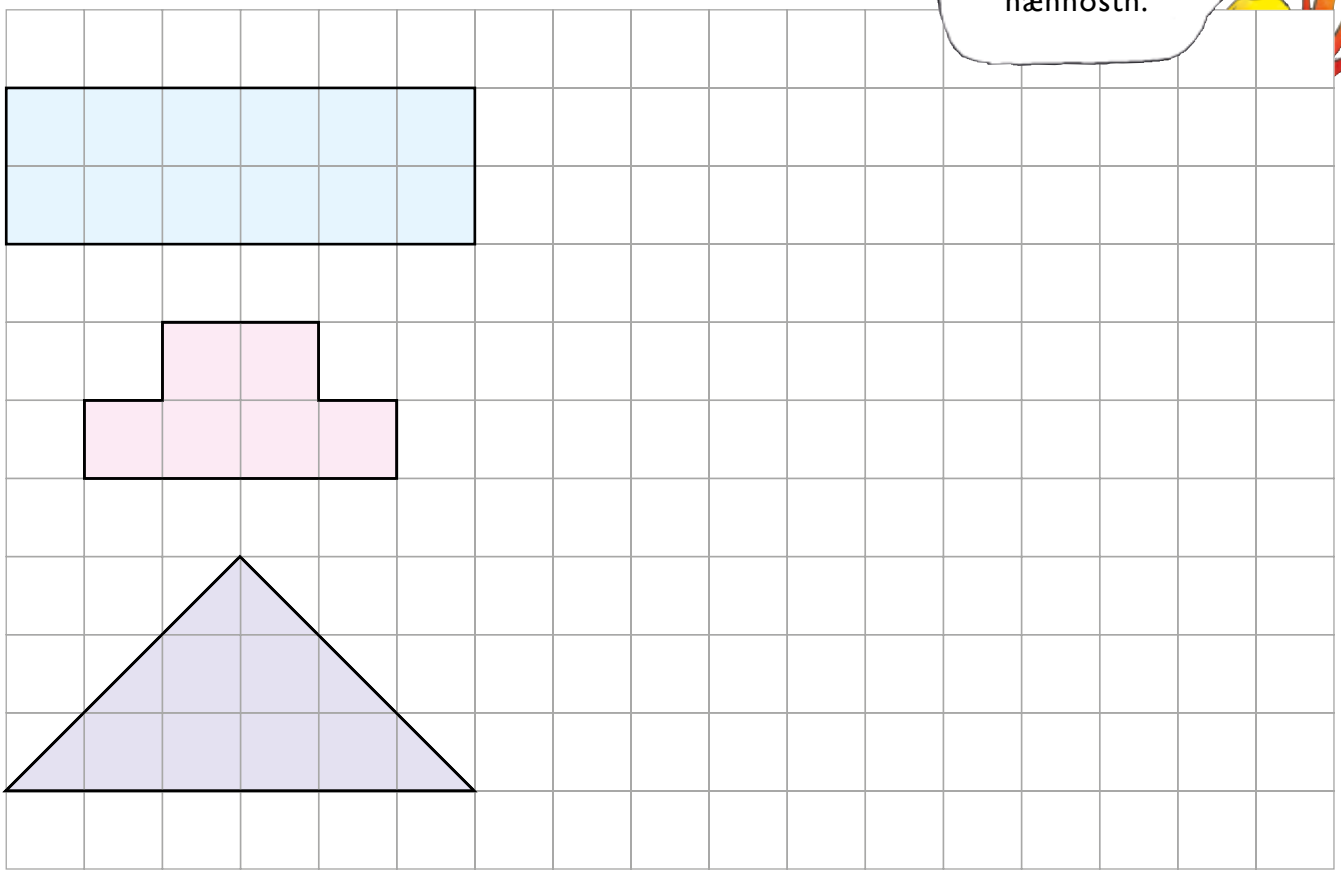




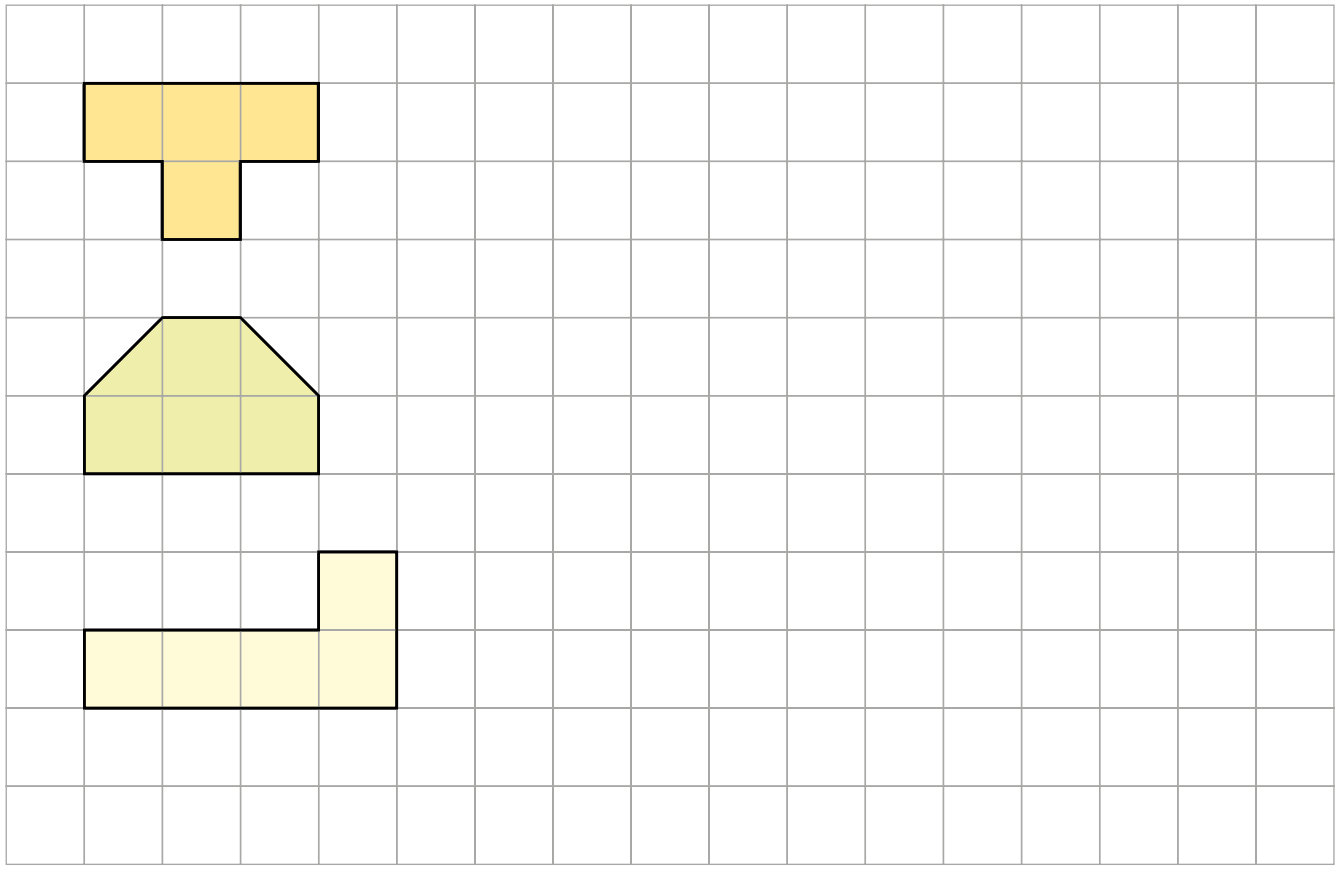
Bassenge _____ dïhte stööremes.

• Mïetesth bassengi areaalem skubpeginie. Guvvedh ståaroem skubpegen bïjre gosse mïetesth. Tjaelieh minngemes dan stööremes bassengen baakoem vaastoe-sïevese.

[·] Guvvedh haemieh lehkien stoere areaaline.

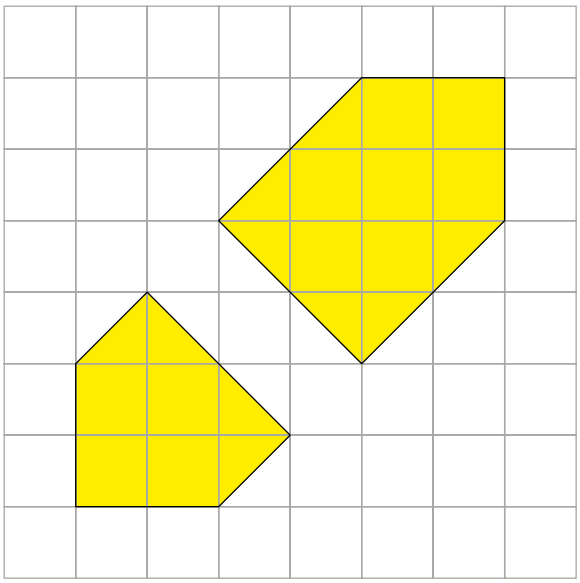


[··] Guvvedh haemieh guektien gïerth stoere areaaline.

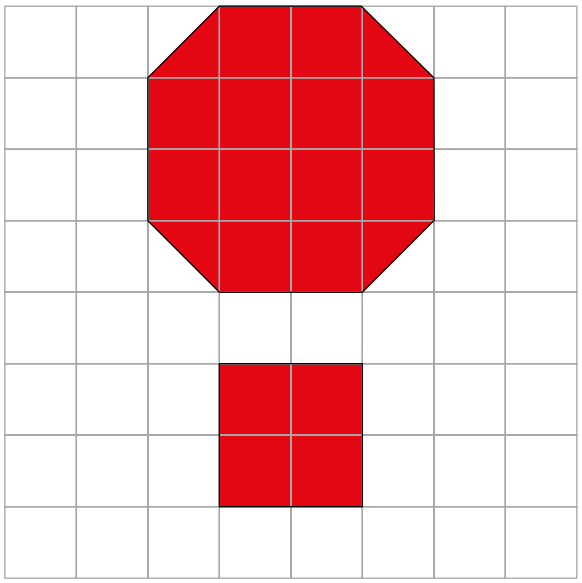


• Gaavnh fierhten haemien areaalem. Guvvedh dan mænngan haemieh lehkien stoere areaaline.
•• Gaavnh fierhten haemien areaalem. Guvvedh dan mænngan haemieh guektien gïerth stoere areaaline.

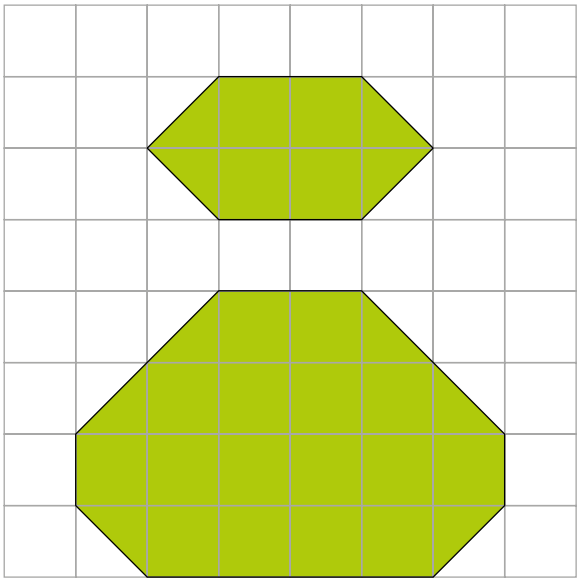
Man gïeje stööremes?
Man unnemes?



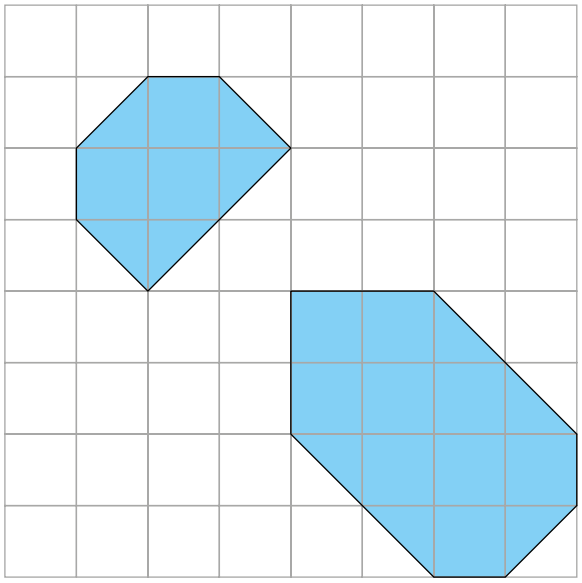
Medtie _____ rovhth.



Medtie _____ rovhth.



Medtie _____ rovhth.



Medtie _____ rovhth.

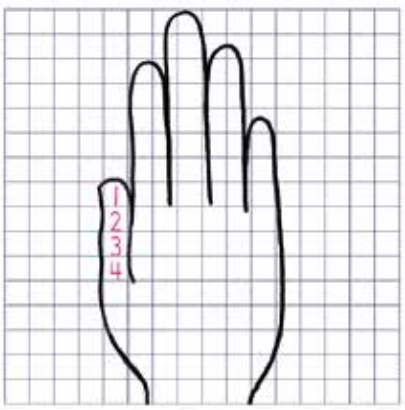
Dïhte stööremes gïeje medtie _____ rovhth.

Dïhte unnemes gïeje medtie _____ rovhth.

• Ryöknh man gellie rovhth fierhten gïeje gaptja. Gaavnh minngemes man dïhte stööremes jïh man dïhte unnemes.

[·] Guvvedh jïjtjedh gïeten ståaroem.

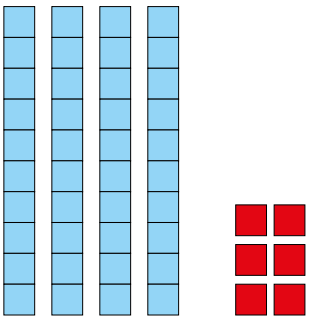
[··] Man gellie medtie rovhth dov gïete?



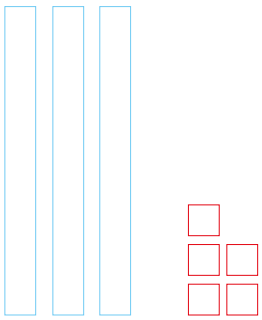
Medtie _____ rovhth.

12 RYÖKNEDIDH

[·] Man jeene ektesne?



40 + 6 = ____



30 + 5 = ____

50 + 9 = ____

70 + 6 = ____

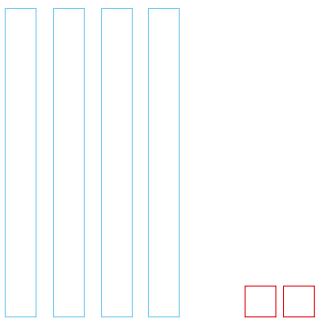
40 + 8 = ____

20 + 5 = ____

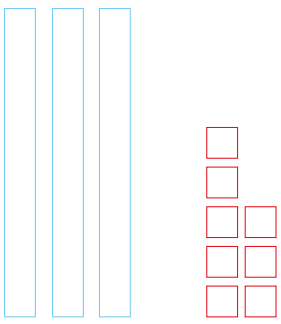
60 + 7 = ____

80 + 4 = ____

[··] Juekieh låhkaginie jïh aktaginie.



42 = 40 + ____



38 = ____ + ____

23

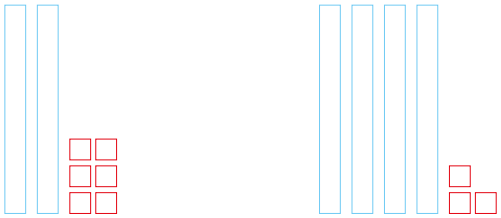
72

58

91

• Bïejh tjåanghkan jïh tjaelieh taalem. • • Juekieh taalide låhkaginie jïh aktaginie.

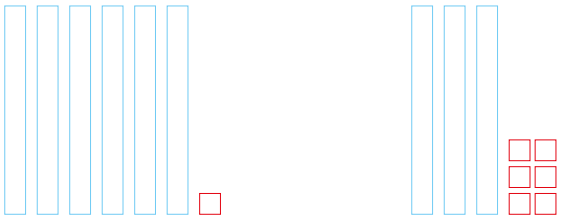
[·] Bïejh låhkegh jïh aktegh tjåanghkan. Ryöknedh.



26 + 43 = 60 + 9 = ____

---

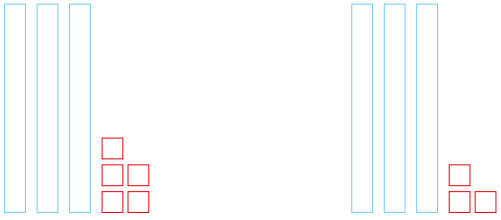
24 + 24 = 40 + ____ = ____



61 + 36 = ____ + ____ = ____

---

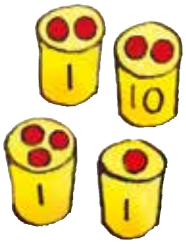
42 + 24 = ____ + ____ = ____



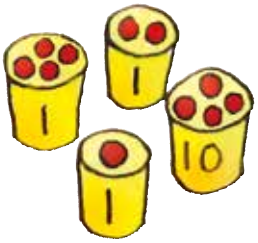
35 + 33 = ____ + ____ = ____

• Bïejh taalide tjåanghkan, voestegh låhkegh jïh dan mænngan aktegh. Dan mænngan låhkegh jïh aktegh tjåanghkan bïejh.

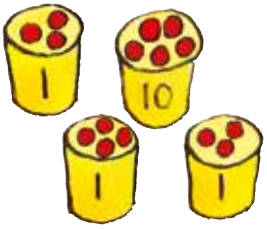
[·] Man gellie tjåegkieh sjidtieh?



20 + 6 = ____



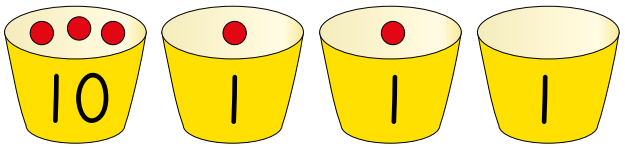
____ + ____ = ____



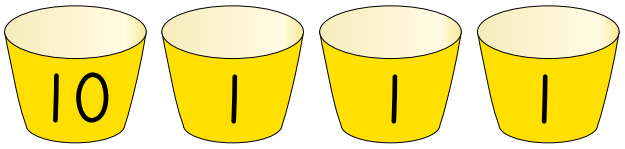
____ + ____ = ____

[··] Guvvedh tjengkerh lihtide.

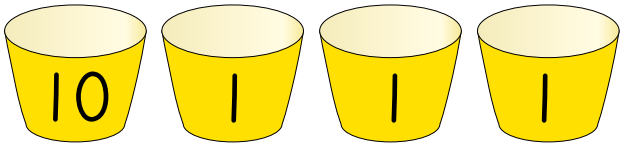
32 = 30 + ____



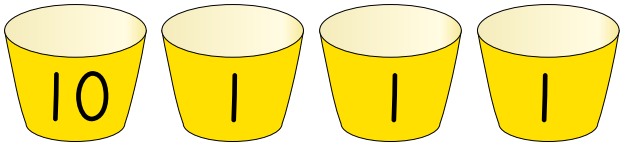
45 = ____ + ____



28 = ____ + ____



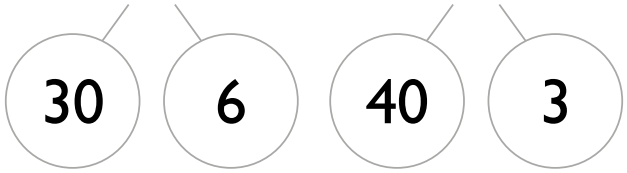
56 = ____ + ____



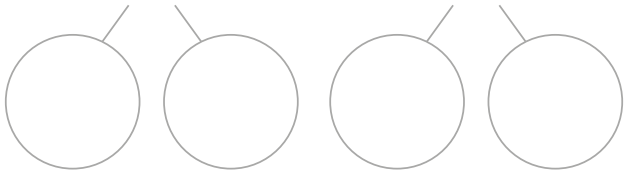
• Gaavnh voestegh tjåegkie-tjåenghkiem låhkege-tjengkieridie, dan mænngan tjåenghkiem aktege-tjengkieridie. Tjaelieh ryökneme-boelhkem låhkaginie jïh aktaginie. •• Guvvedh tjengkerh lihtide mij ållesth tjåanhgkan sjeahta. Tjaelieh ryökneme-boelhkem låhkaginie jïh aktaginie.

[·] Juekieh låhkaginie jïh aktaginie. Ryöknedh.

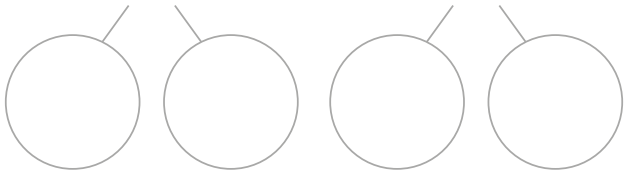
36 + 43 = 70 + 9 = ____



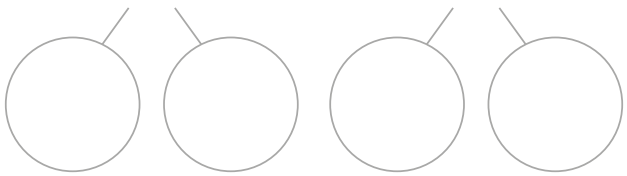
54 + 31 = ____ + ____ = ____



72 + 27 = ____ + ____ = ____



63 + 24 = ____ + ____ = ____

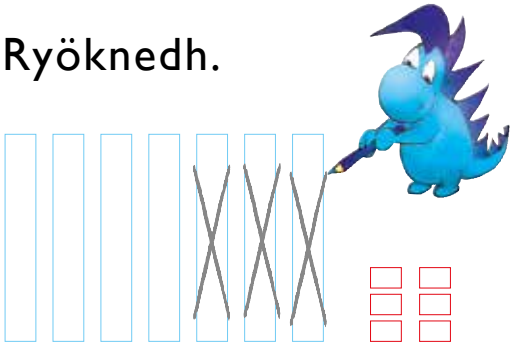


[··] Ryöknedh.

33 + 66 = ____	34 + 14 = ____	65 + 24 = ____
21 + 57 = ____	75 + 12 = ____	56 + 31 = ____
18 + 21 = ____	17 + 32 = ____	43 + 35 = ____
28 + 31 = ____	13 + 72 = ____	83 + 16 = ____

· Juekieh taalide låhkaginie jïh aktaginie. Tjaelieh låhkegi tjåenghkiem, aktegi tjåenghkiem jïh minngemes ållesth tjåanghkoem.
·· Ryöknedh jïh tjaelieh vaastoem.

[·] Ryöknedh.



76 – 30 = 40 + 6 = ____

58 – 24 = ____ + ____ = ____

49 – 37 = ____ + ____ = ____

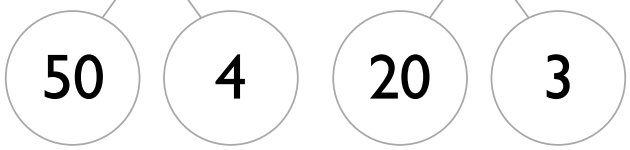
67 – 43 = ____ + ____ = ____

88 – 56 = ____ + ____ = ____

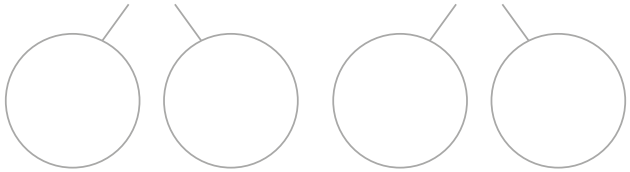
• Ryöknedh låhkegh jïh aktegh tjietjelen. Tjaelieh gaske-ryöknedimmie goh låhkegi jïh aktegi tjåenghkiem, jïh minngemes dam vaastoem. Maahtah staagkoeh jïh skaavhtegh kroessedh gosse vaastoem gaavnedh.

[·] Ryöknedh.

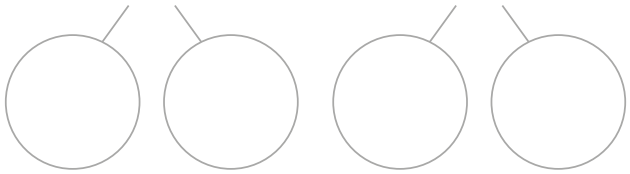
54 – 23 = 30 + 1 = ____



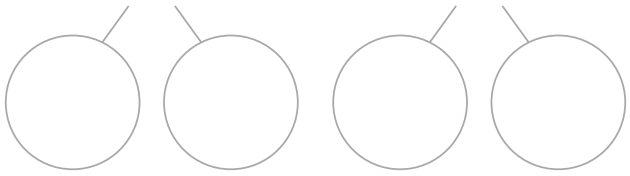
76 – 34 = ____ + ____ = ____



84 – 43 = ____ + ____ = ____



49 – 27 = ____ + ____ = ____

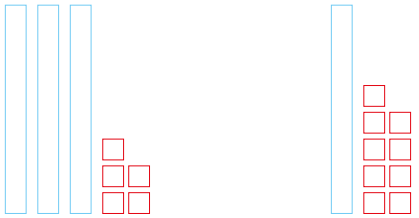


[··] Ryöknedh.

58 – 30 = ____	79 – 33 = ____	29 – 13 = ____
67 – 42 = ____	85 – 21 = ____	66 – 42 = ____
36 – 24 = ____	97 – 42 = ____	58 – 27 = ____
85 – 14 = ____	99 – 46 = ____	78 – 25 = ____

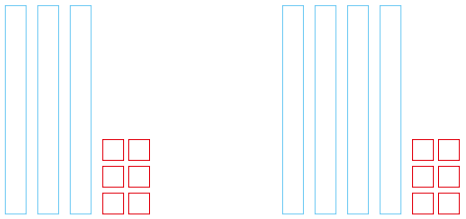
· Juekieh låhkaginie jïh aktaginie. Tjaelieh gaske-ryöknedimmie goh låhkegi jïh aktegi tjåenghkiem, jïh minngemes dam vaastoem.
·· Ryöknedh jïh tjaelieh vaastoem.

[·] Ryöknedh.

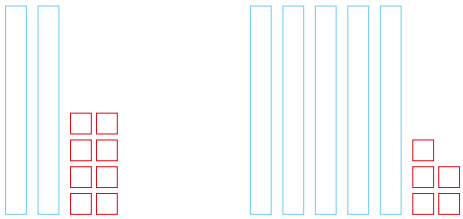


35 + 19 = = ____

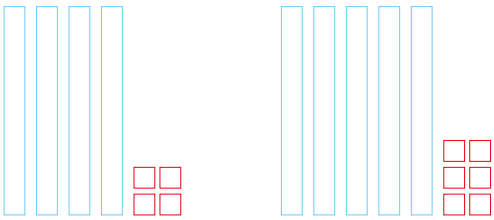
24 + 27 = = ____



36 + 46 = = ____



28 + 55 = = ____

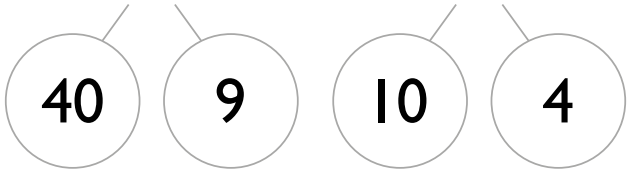


44 + 56 = = ____

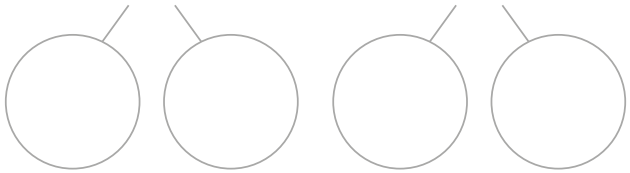
• Bïejh låhkegh jïh aktegh tjåanghkan tjietjelen. Jis jeenebh goh luhkie aktege-skaavtegh sjidtieh, maahtah dejtie akten lissie låhkege-staagkose tsööpkedh.

[·] Ryöknedh.

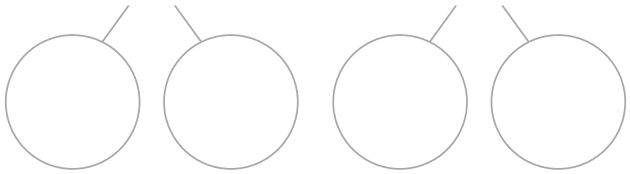
49 + 14 = 50 + 13 = ____



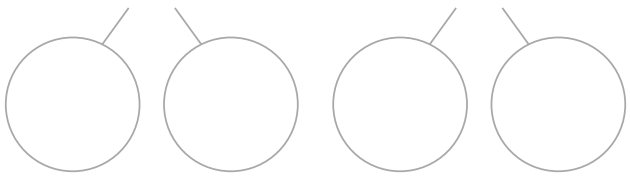
23 + 68 = ____ + ____ = ____



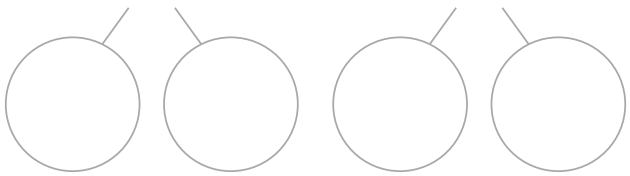
54 + 39 = ____ + ____ = ____



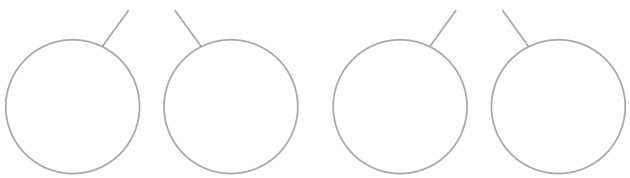
28 + 33 = ____ + ____ = ____



36 + 54 = ____ + ____ = ____

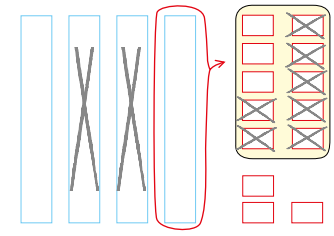


46 + 25 = ____ + ____ = ____

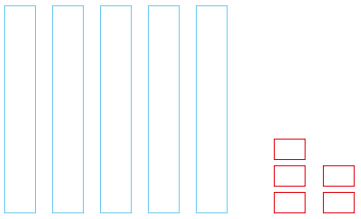


• Juekieh taalide låhkaginie jïh aktaginie. Tjaelieh gaske-ryöknedimmie goh låhkegi jïh aktegi tjåenghkiem, jïh minngemes dam vaastoem.

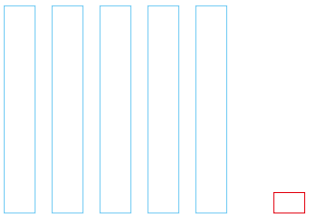
[·] Ryöknedh.



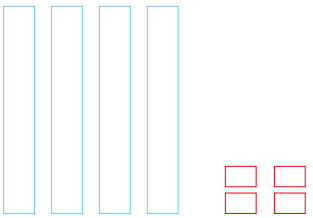
43 – 27 = ____



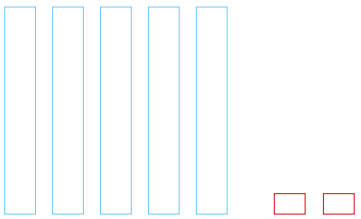
55 – 38 = ____



61 – 26 = ____



44 – 17 = ____



52 – 36 = ____

[·] Ryöknedh.

72 – 19 = ____

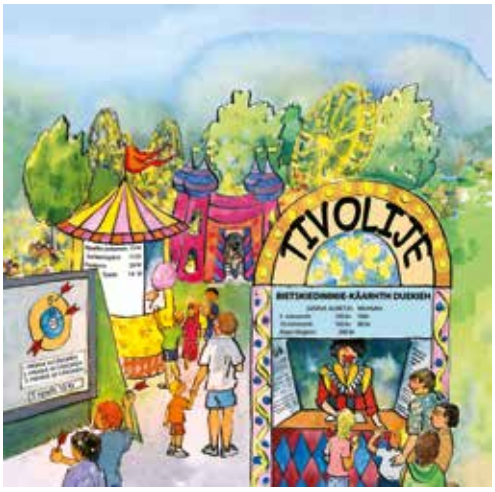
64 – 16 = ____

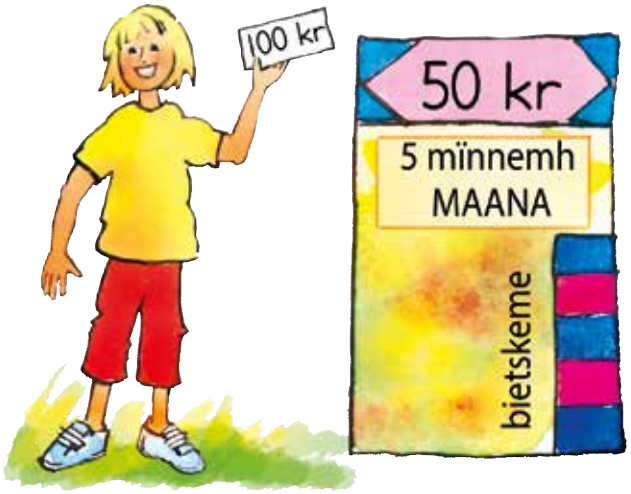
52 – 27 = ____

63 – 36 = ____

81 – 18 = ____

• Juekieh låhkaginie jïh aktaginie. Ryöknedh vaastoem.





Maarjan leah 100 kråvnah. Dïhte aktem bietskeme-kåarhtem åasta 50 kråvnaj åvteste. Man jeenem aajmojne åtna? _____ kr

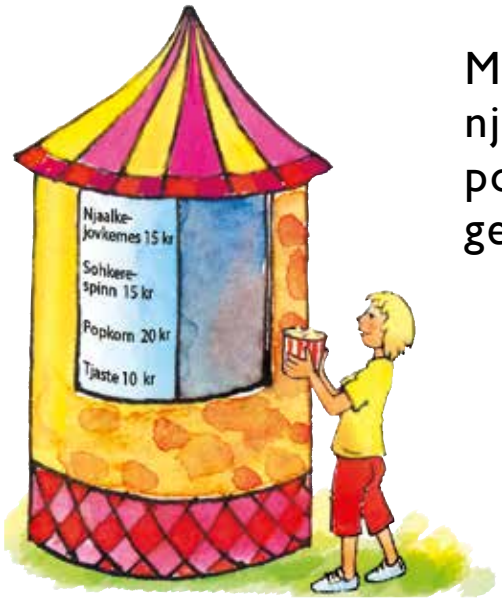
Ryöknedh daesnie.

Dïhte sohkere-gurremem 15 kråvnaj åvteste åasta. Man gellie kråvnah dellie aajmojne? _____ kr

Ryöknedh daesnie.

Maarja aahkebem råaka. Aahkabistie 25 kråvnah åådtje. Man jeenem dellie åtna? _____ kr

Ryöknedh daesnie.



Maarjan leah 60 kråvnah. Dïhte aktem njaalke-jovkemes 10 kråvnaj åvteste jïh popcorn 20 kråvnaj åvteste åasta. Man gellie kråvnah dellie aajmojne? _____ kr

Ryöknedh daesnie.

Maarja njoelh tjatska. Dïhte 10 kråvnah maaksa. Man gellie kråvnah dellie aajmojne? _____ kr

Ryöknedh daesnie.

Maarja sæjhta tjastem jïh njaalke-jovkemes åestedh. Mejtie nuekies beetnegh dïsse åtna? _____ kr

Ryöknedh daesnie

• Lohkh tjaalegem jïh gaavnh vaastoem. Provhkh rovhtide gosse vuesiehtidh guktie vaastoem ryöknedih.

[·] Ryöknedh.

23 + 42 =	36 + 21 =
57 + 24 =	61 + 19 =
26 + 35 =	45 + 16 =
53 + 46 =	29 + 37 =

[·] Ryöknedh.

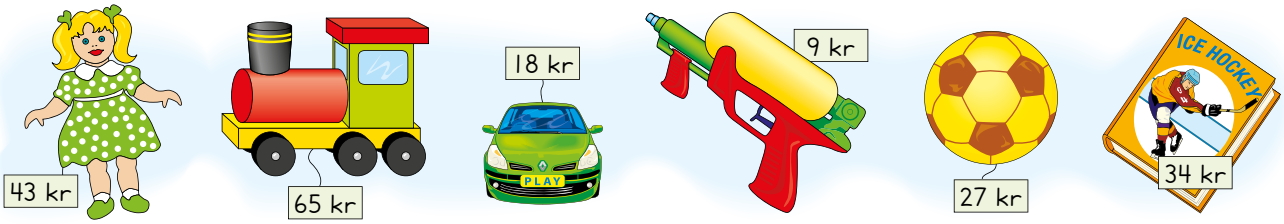
39 – 16 =	45 – 23 =
29 – 19 =	62 – 37 =
31 – 18 =	43 – 25 =
34 – 27 =	42 – 39 =

• Ryöknedh jïh tjaelieh vaastojde. Aaj vuesehth guktie ussjedh. Datne maahtah guvviedidh jallh ryöknedimmie-boelhkh tjaeledh.

[·] Ryöknedh.

47 + 10 = ____	35 + 13 = ____	26 + 58 = ____
59 + 30 = ____	72 + 21 = ____	44 + 27 = ____
67 + 40 = ____	45 + 42 = ____	19 + 44 = ____
58 + 20 = ____	24 + 62 = ____	35 + 29 = ____
35+ 12 = ____	56 + 22 = ____	49 + 13 = ____
26 + 51 = ____	77 + 12 = ____	39 + 25 = ____

35 – 20 = ____	64 – 14 = ____	65 – 19 = ____
43 – 30 = ____	85 – 25 = ____	78 – 29 = ____
62 – 20 = ____	73 – 32 = ____	99 – 33 = ____
77 – 40 = ____	46 – 32 = ____	51 – 39 = ____
45 – 31 = ____	69 – 32 = ____	81 – 26 = ____
64 – 22 = ____	58 – 14 = ____	72 – 43 = ____
96 – 33 = ____	43 – 21 = ____	100 – 55 = ____



[·] Trymen leah 50 kr. Dïhte edtja göökte vadtesh åestedh.

Maam maahta åestedh? _____ jïh _____

Man jeenem aajmojne åtna? _____ kr

Ryöknedh daesnie.

Ejvan leah 47 kr. Dïhte sæjhta stååke-ruevtieraajroem åestedh. Man jeenh beetnegh fååtesieh? _____ kr

Ryöknedh daesnie.

[··] Darjoeh lïerehtimmiem jïjtje.

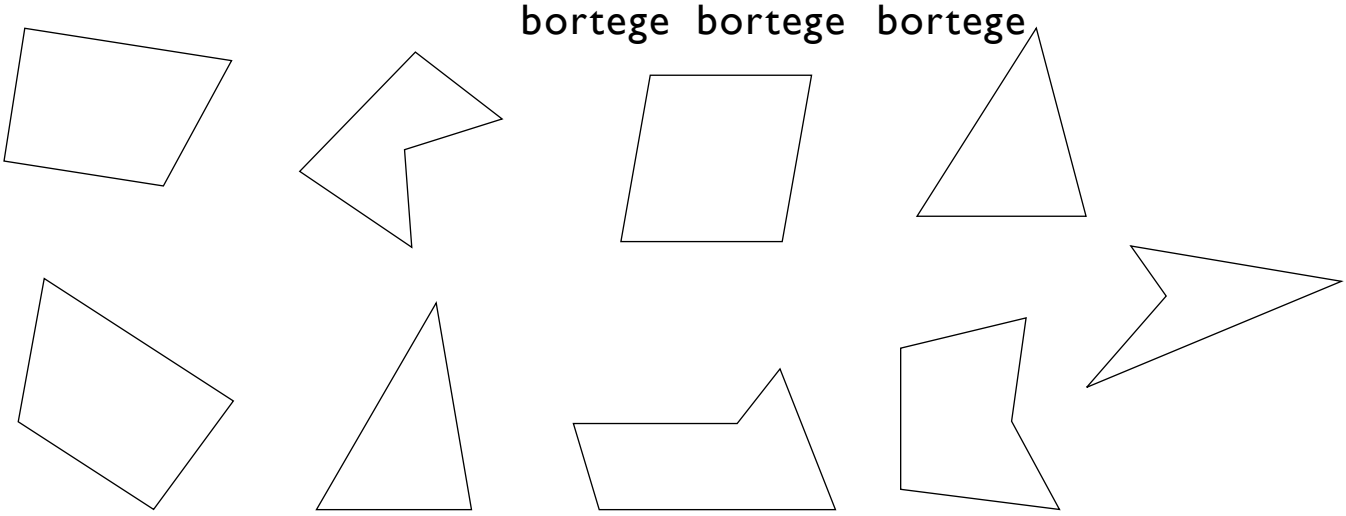
Ryöknedh daesnie.

• Provhkh dejtie åaside bijjemes daennie bielesne gosse lïerehtimmide vaestiedidh. Vuesehth guktie datne ussjedh dennie rovhtesne gyhtjelassi nuelesne. • • Datne hov maahtah dejtie åaside bijjemes daennie bielesne jallh jïjtjene vaaroeh jïh åasah provhkedh.

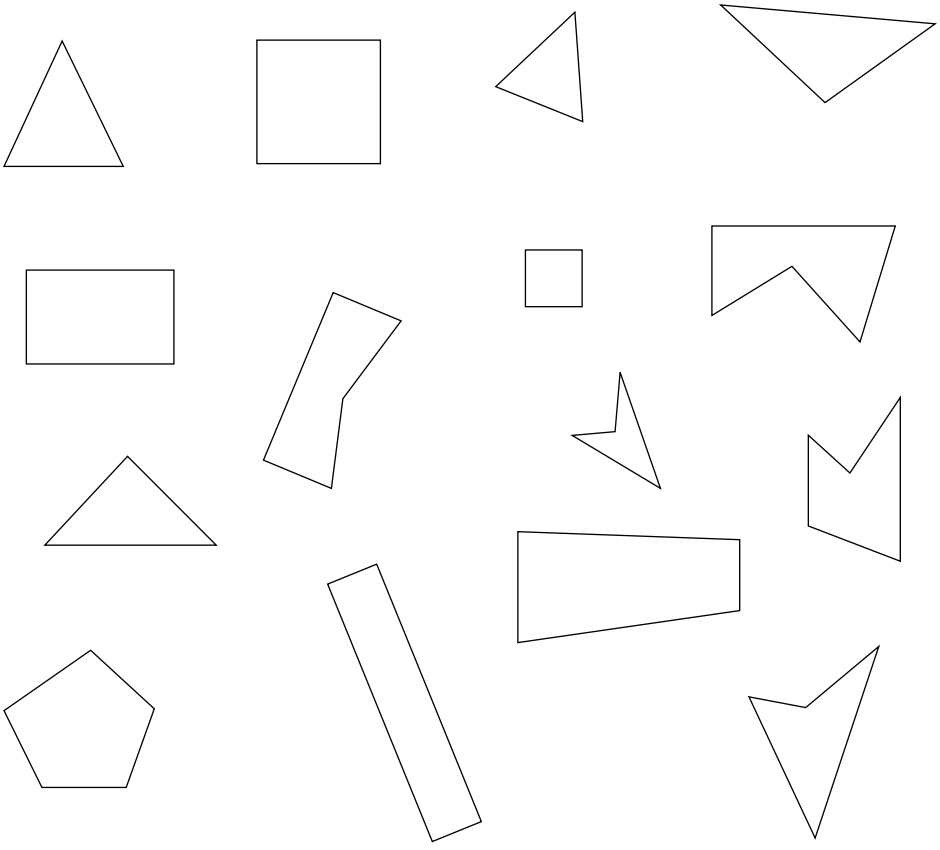
13 GELLIEN-BORTEGH JÏH GIEVLIEH

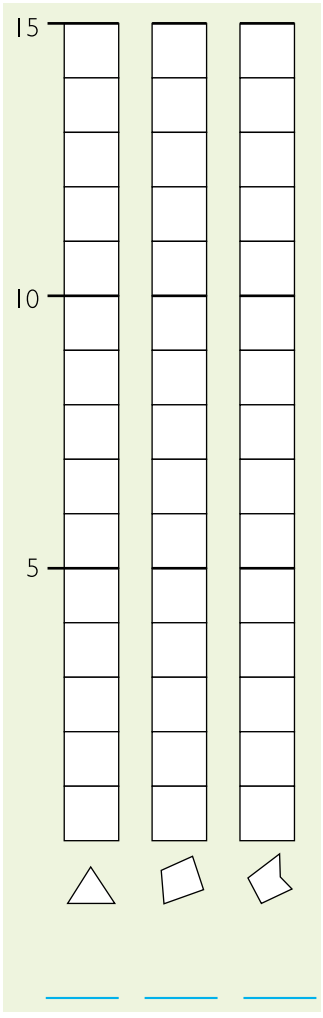
[·] Klaeredh haemide.

golmen-bortege njieljien-bortege vïjhten-bortege



[··] Man gellie gaavnh?

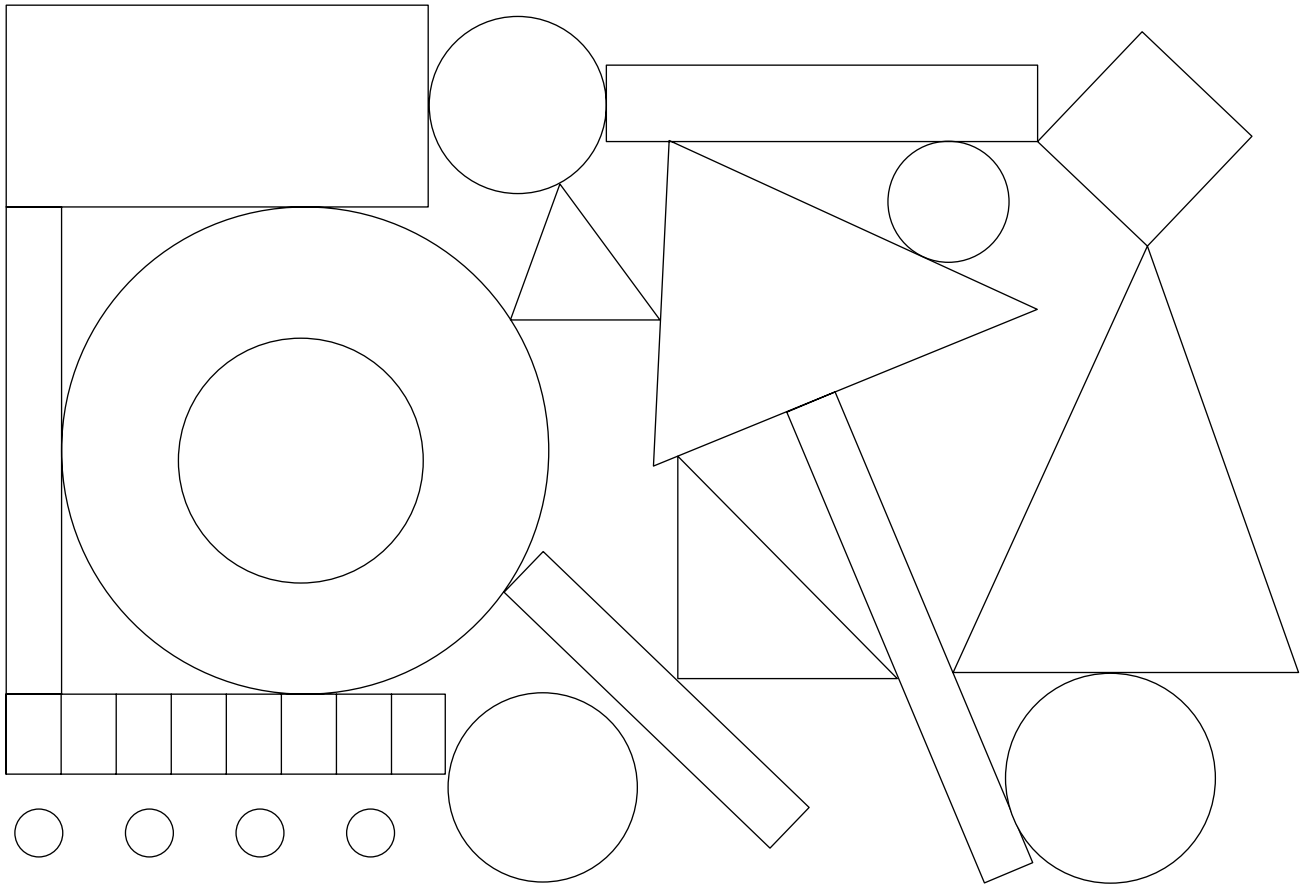




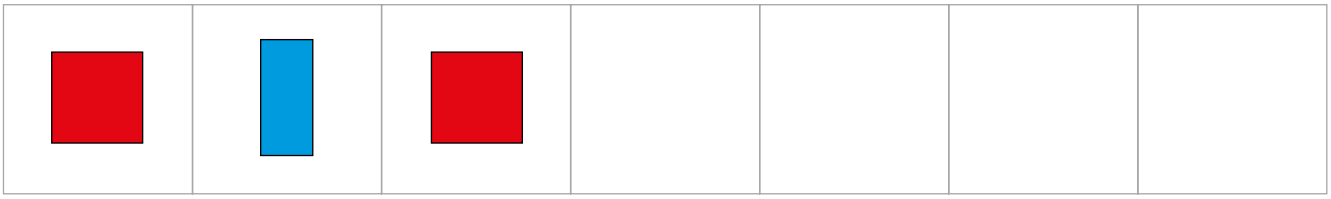
• Klaeredh haemide klaerie-riektien mietie daennie bijjiebielesne. •• Ryöknh golmen-bortegidie, njieljien-bortegidie jïh vijhten-bortegidie, jïh klaeredh seamma jeenh rovhth fierhtene haajhkesne.

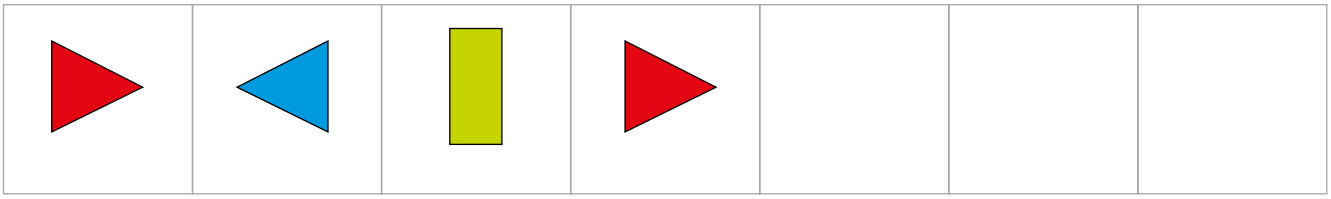
[·] Klaeredh kåanstem.

rööpses jallh plaaves viskes jallh kruana oransje jallh tjoevke-rööpses

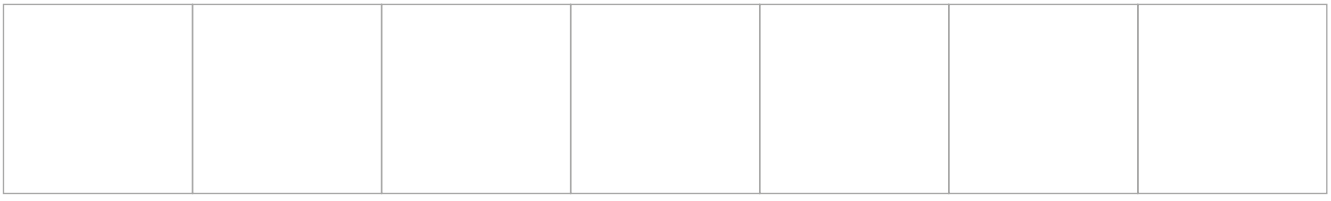


[··] Jåerhkieh goeride.



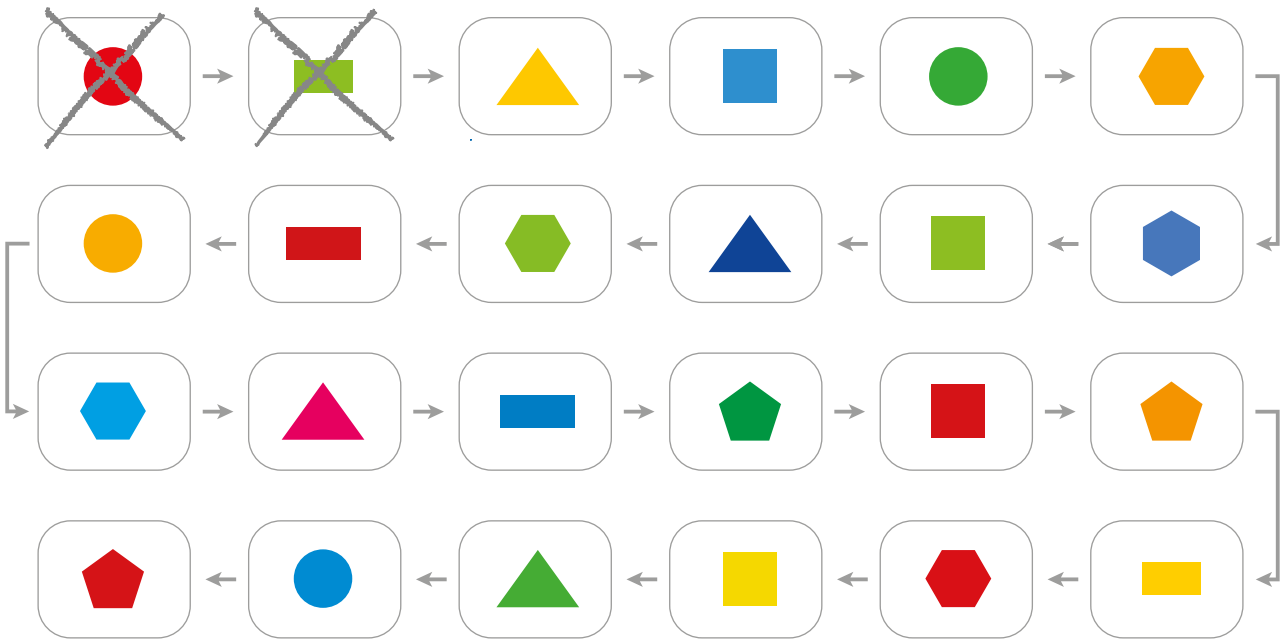


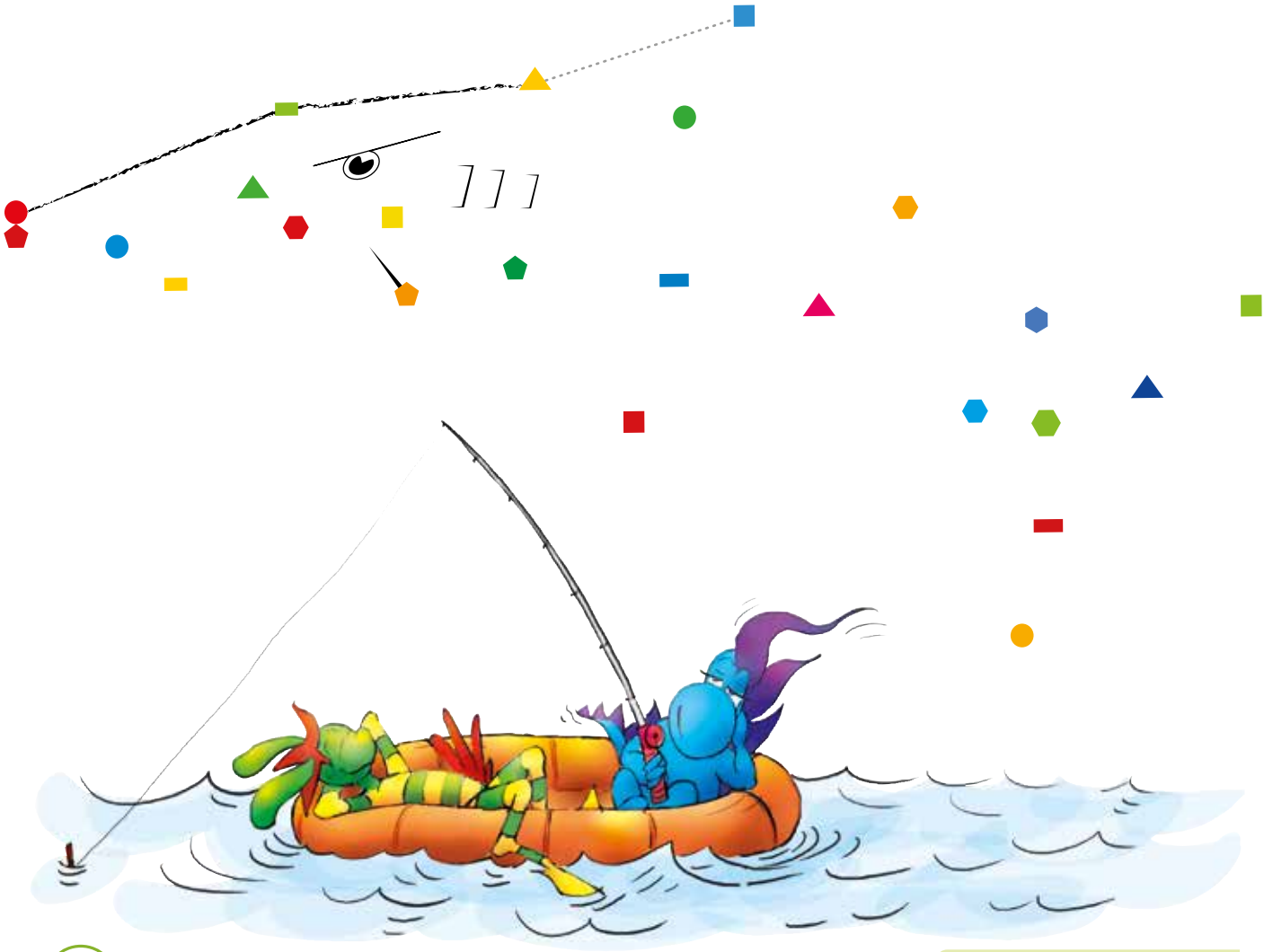
[∴] Darjoeh jïjtjedh goerem.



· Klaeredh haemide klaerie-riektien mietie. ·· Guvvedh jïh klaeredh haemieh guktie goere jåarhka.
∴ Darjoeh jïjtjedh goerem. Maahtah dovne klaerieh jïh goerh jïjtje nænnoestidh.

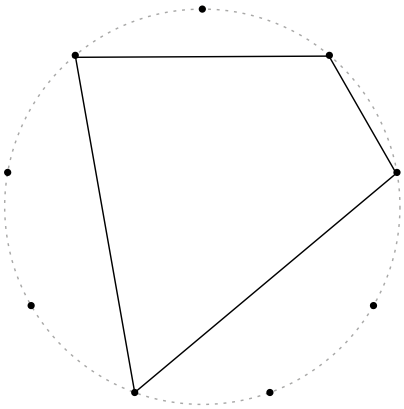
[·] Darjoeh sïevh haemeste haaman.



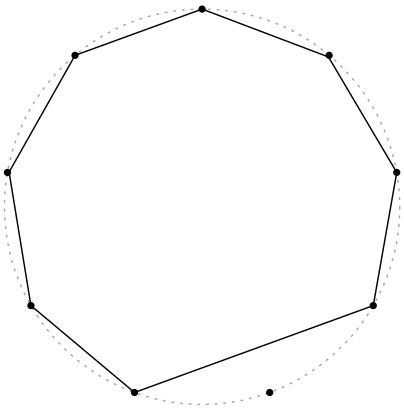


• Darjoeh sïevh geometriske haemeste seamma gaevnjieruktien mietie guktie dah rovhtine daagkoe bijjemes vuesiehtieh.

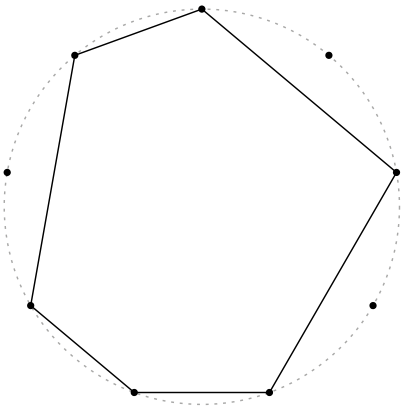
[·] Man gellie bortegh haemiej?



_____ bortegh

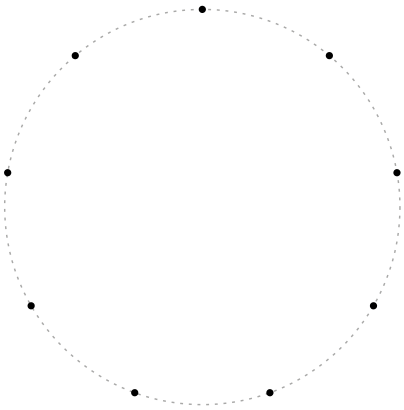


_____ bortegh

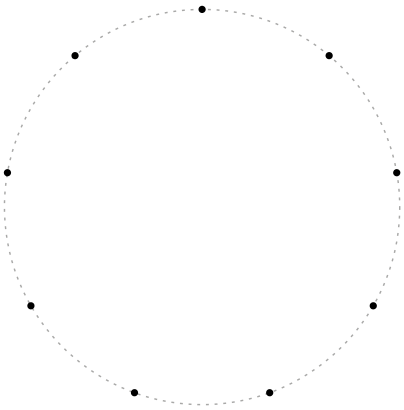


_____ bortegh

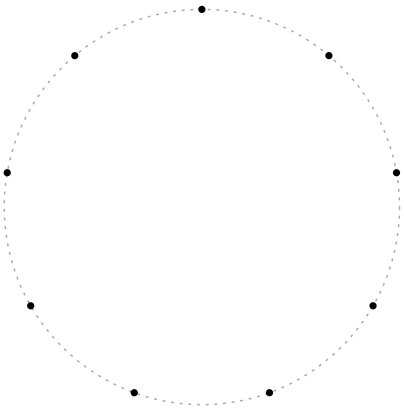
[··] Guvvedh gellien-bortegh.



vïjhten-bortege

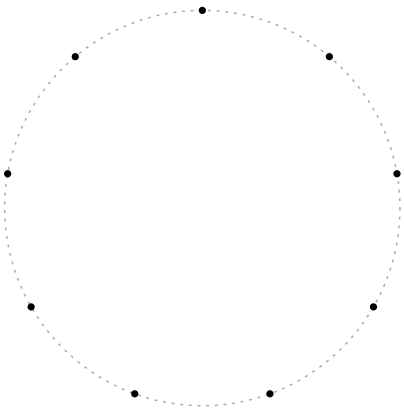


tjïjhtjen-bortege



uktsien-bortege

[∴] Guvvedh jïh tjaelieh nommh ovmessie gellien-bortegidie.



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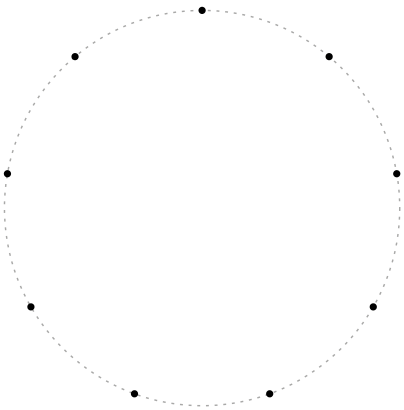

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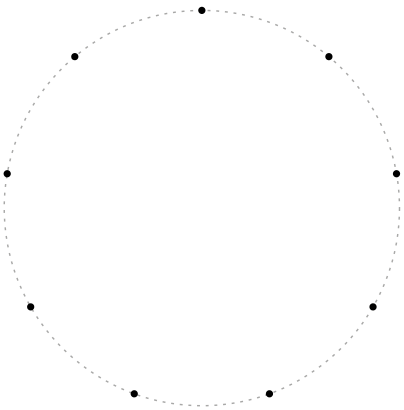
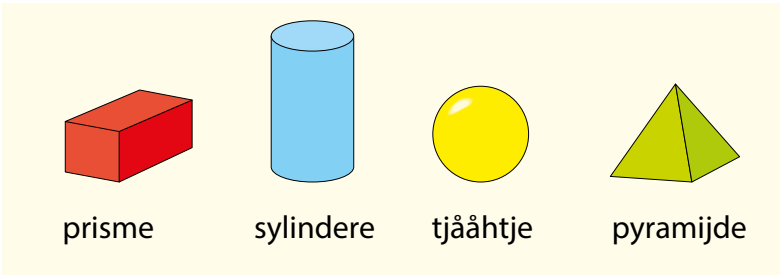


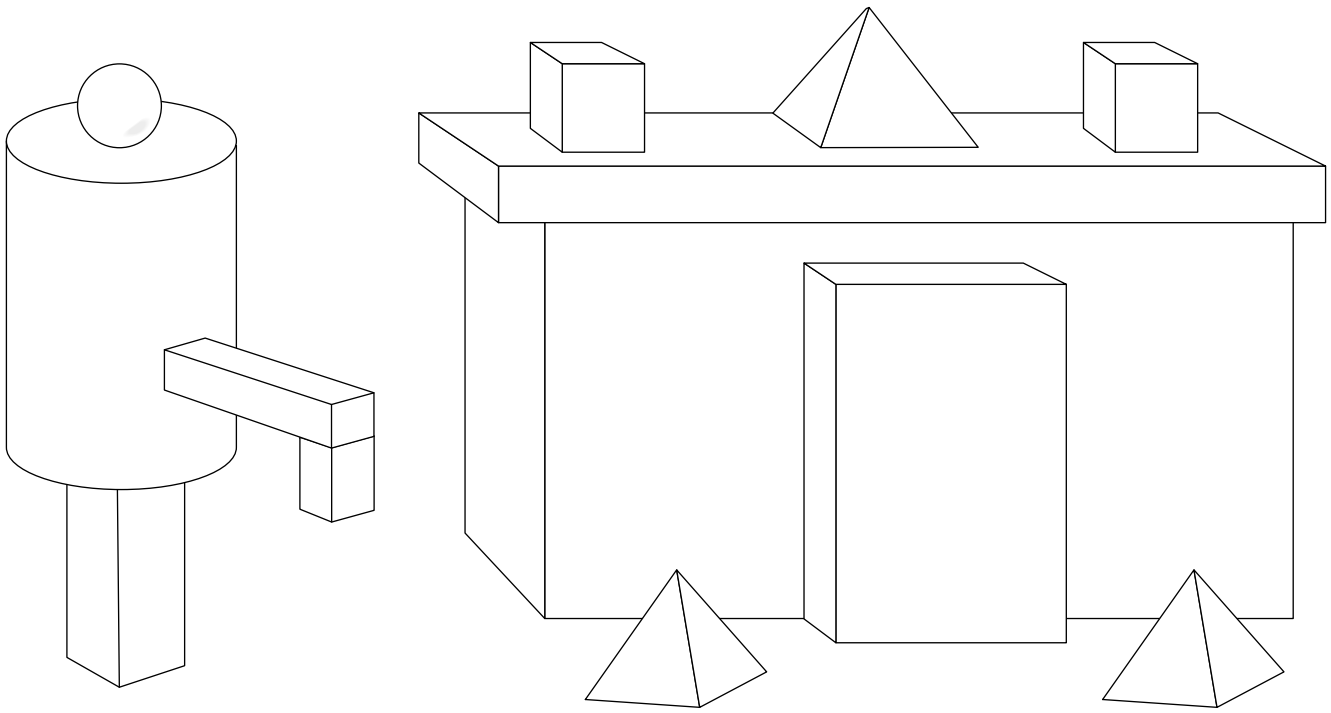
_____

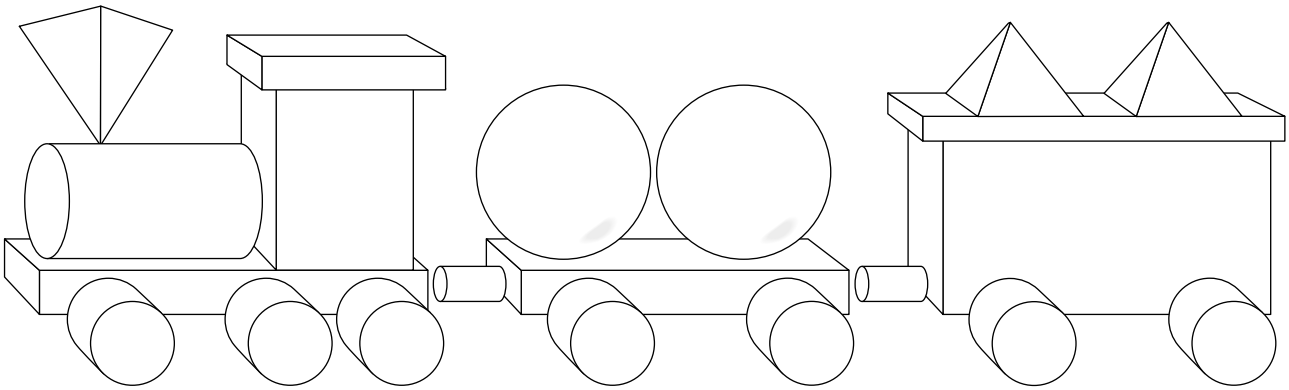
· Ryöknh man gellie bortegh fierhten haemien jïh tjaelieh vaastoem. ·· Guvvedh gellien-bortegh. Dah skaavhth tjuerieh gievlien tsiehkine årrodh. ∴ Guvvedh gellien-bortegh. Dah skaavhth tjuerieh gievlien tsiehkine årrodh. Tjaelieh dej nommh. Ij naaken gellien-bortegh edtjieh seamma-laakan årrodh.

14 TJAEKEDS HAMMOEH

[·] Klaeredh haemide guvvesne.

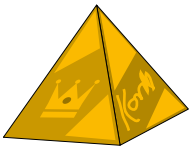


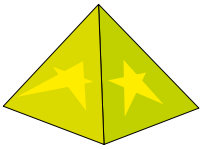


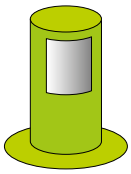


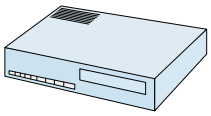
Liehrh damtedh dejtie guvvien geometriske hammojde, jih klaeredh seamma klaerine guktie bijjemes haemieh.

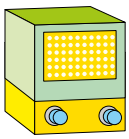
[·] Guvvedh guktie gaevnieh nuelesne vååjnoeh.

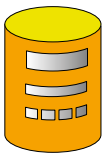




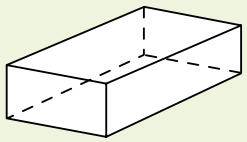


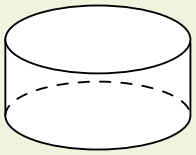


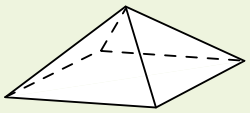


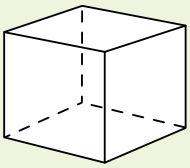


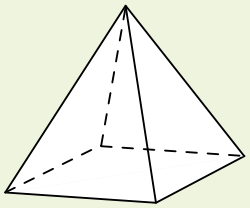
[·] Magkerh haemieh ektesne? Darjoeh sïevh.

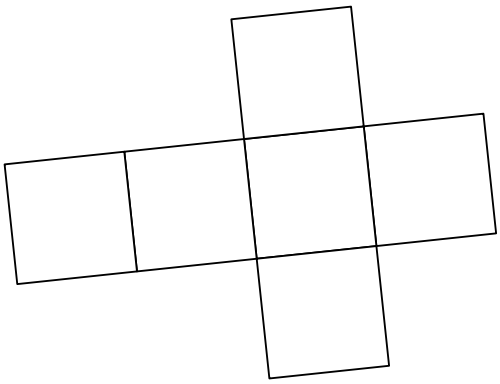


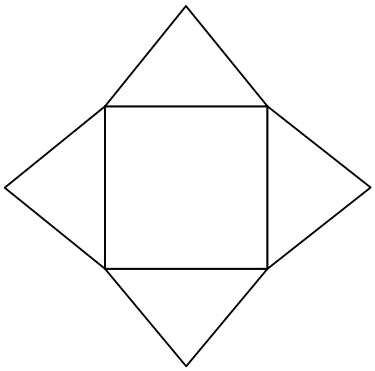


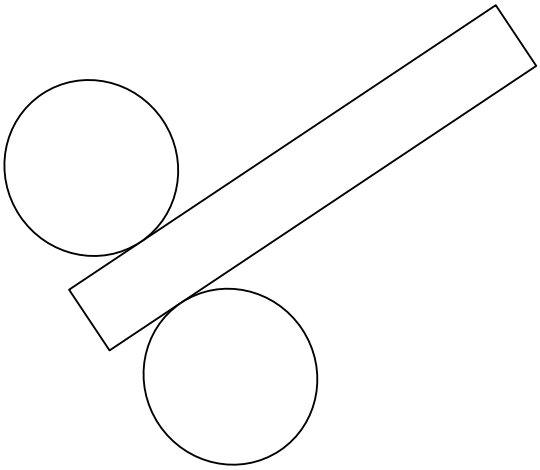


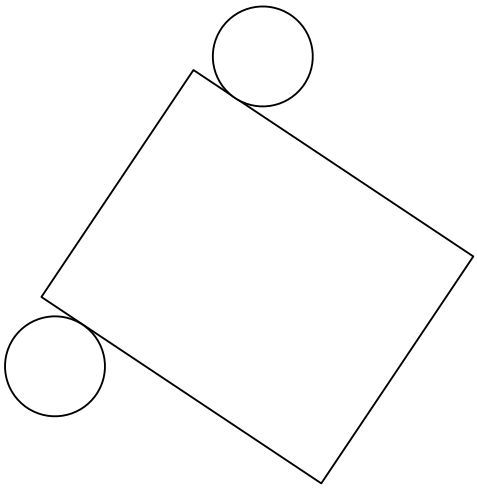


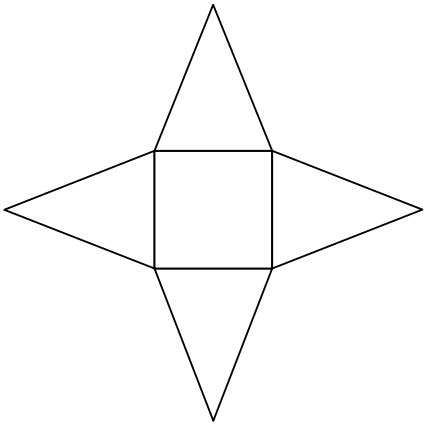


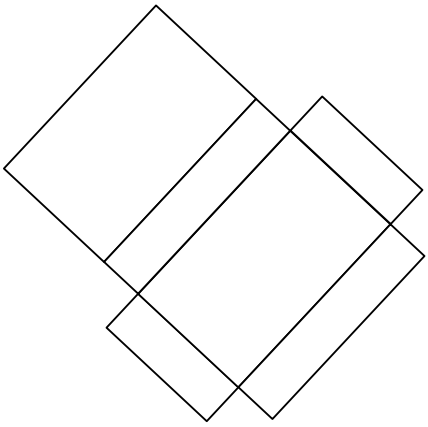












• Goerh guktie dah gårroeh bielien golme-dimensjovnaale haemieh vååjnoeh gosse dejtie prijreme. Darjoeh sïevh dah golme-dimensjonaale haemiej gaskem jih dej haemiej gaskem mejtie prijreme.

[·] Mej göökte seamma-laakan?

• Gaavnh dejtie göökte fyrtåarnh mah eevre seamma-laakan.

[·] Fibo jïh Fiboline gaadtan edtjijægan.
Goerehth maam sinsætnan jiehtiejægan.

56 + 28 = A	72 + 19 = H	45 + 45 = I
55 + 32 = D	42 + 47 = I	27 + 52 = E
26 + 68 = E	67 + 28 = K	32 + 38 = S
52 + 47 = J	58 + 38 = M	40 + 40 = V
23 + 49 = G	63 + 35 = N	

91	90	99	80	94	98

72	89	94	70	89	94

72	84	84	99	91	95	79	70	89	87	90	79	!

• Ryöknedh lïerehtimmide jïh tjaelieh baakojde rovhtide reaktoe vaastojne.

[·] Gåabph Fibi jïh Fiboline edtjijægan eejehtalledh.

92 – 25 = A	93 – 28 = K	91 – 19 = S
100 – 50 = M	85 – 14 = L	84 – 26 = T
75 – 15 = E	100 – 25 = N	73 – 28 = U
83 – 21 = V	96 – 35 = O	74 – 18 = J
76 – 52 = G	92 – 49 = R	78 – 39 = Å
86 – 22 = I		

Fibo

50	67	75	75	60	24	64	43	58	64	75	60		

58	43	39	67	75	58	60	72	60

62	45	67	71	65	67	50

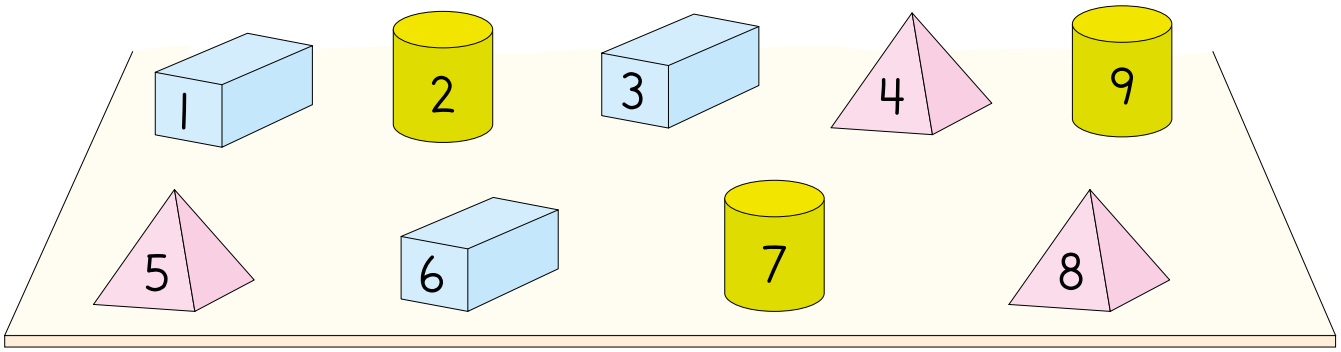
Fiboline

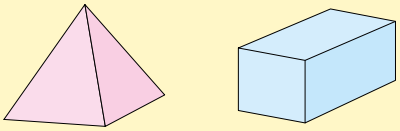
43	45	60	62	58	64	60	-	43	67	67	56	43	61	56	75	60			

72	75	39	67	72	60	72	60	62	45	67	71	65	67	50

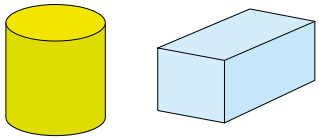
· Ryöknedh lïerehtimmide jïh tjaelieh baakojde rovhtide reaktoe vaastojne.

[·] Gaavnh haemiej taalem. Darjoeh ryöknedimmie-boelhkh.





5 + 3 = 8



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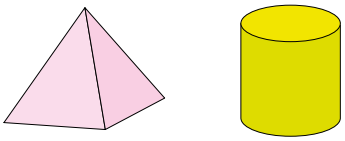

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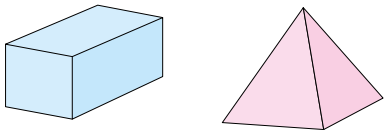

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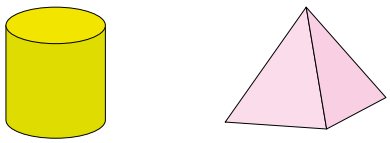
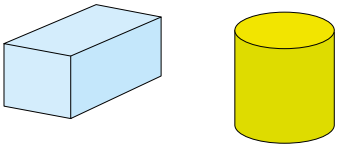


____ + ____ = 15



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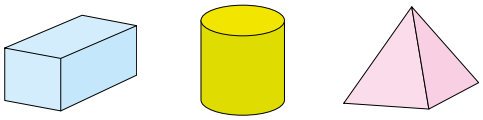

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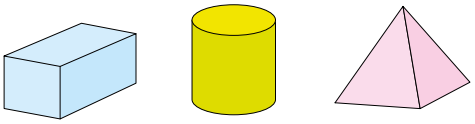

____ + ____ + ____ = 20

• Mij vierhtide haemieh tjuerieh utnedh? Gaavnh dejtie haemide mah tjåenghkiem ektesne sjidtieh.

Multi

Matematihke maanadaltesasse

Multi fleksibiliteetem matematihke-lohkehtæmman vadta gosse lohkehtæjjide dåårje jïh nuepiem vadta måedtie lohkehtimmie-vuekieh provhkedh. MULTI eadtjaldåvva, buerie mïelem vadta jïh lustes baalka matematihkese.

Multise vihkeles:

- Måedtie ïedtjh gosse vueptiestidh, goerehtidh jïh eadtjohkelaakan barkedh
- Lohkehtimmie mejtie sjïehtesjamme lohkehtimmie-ektievyökosne
- Veele maahtoe-ulmide learoesoejkesjen mietie vuartasjidh
- Buerielaakan faagine kapihtelistie kapihtelidie barkedh jaepijste jaepide
- Vijries jïh eensi learohkevierhtiedimmie maam lohkehtimmesne sjïehtesje

Multi eeremes:

- Teorijem jïh ïedtjide ektede
- Vuartesje guktie åvtese barkedh; fïerhtene aamhtesinie eensilaakan jïh guhkies boelhkine vuesehte guktie barkedh
- Åenehks jïh aelhkie teksth åtna
- Lohkehtimmiem learoehkidie sjïehtesje sjïere faagi daltesinie
- Buerie jïh tjïelke gærjam Lærerens bok
- Dejtie learoesoejkesjen ulmide fïerhtene kapihtelisnie vuesehte

Multin åejviekomponenth fïerhten daltesasse:

- Maadth-gærja A jïh B
- Lïerehtimmiegærja
- Gaskeviermiesijjie **www.lagadus.org/multi**

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ISBN 978-82-8263-076-4