



SA  
NUMERACY  
CHAIR  
PROJECT

# Buka ya ka ya Tirogae (2)

## Leina:

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Ngwaga:

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Sekolo:

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### Ditebogo

Re eletsa go Leboga mafelo a a lomaganeng le mafaratlhathlha a a latelang ka go re neela dithusathuto tsa bona:

<http://www.math-drills.com/addition.shtml>  
<http://www.mathworksheetwizard.com/grade1/grade1arithmetic.html>  
<http://www.tes.co.uk>

### Tlhomamiso

Bukana e ga e rekisiwe kgotsa go ka dirisetswa go nna le letseno. E dirisediwa feela tsa go tsweletsa go ithuta. O ka dira dikhophi tsa ditsebe tse o ditlhokang fa o eletsa jalo.

# Dipalo tsa Lere (Number Ladders)

Ke palo efe e o e fitlhelelang Kwa bofelong?

A	B
Simolola ka 9	Simolola ka 10
Oketsa palo eo gabedi	Oketsa palo eo gabedi
Tlhakanya 2	Tlhakanya 15
Fokotsa 5	Fokotsa 3
Tlhakanya 10	Dira halofo ya yona
Fokotsa 13	Tlhakanya 2
Dira halofo ya yona	Fokotsa 8
Karabo ya gago ke bokae?	Karabo ya gago ke bokae?
C	D
Simolola ka 4	Simolola ka 8
Oketsa palo eo gabedi	Oketsa palo eo gabedi
Tlhakanya 1	Tlhakanya 2
Fokotsa 3	Ntsha 4
Tlhakanya 10	Dira halofo ya yona
Fokotsa 12	Tlhakanya 2
Dira halofo ya yona	Fokotsa 8
Karabo ya gago ke bokae?	Karabo ya gago ke bokae?

## Dira

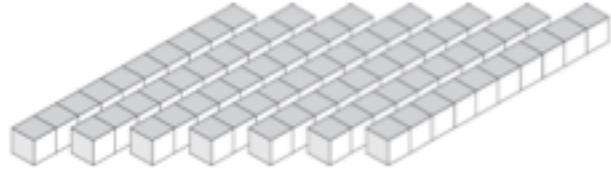
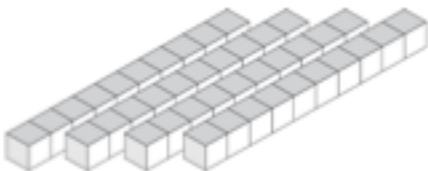
+	2	3	5	10	8	9	1	4	7	6
8										
5										
7										
1										
2										
6										
4										
9										
10										
3										

+	2	7	6	5	10	1	4	8	9	3
8										
9										
5										
2										
4										
3										
7										
10										
1										
6										

+	3	4	2	7	1	9	5	8	10	6
5										
1										
2										
9										
6										
3										
10										
4										
8										
7										

+	2	6	5	9	4	10	8	3	1	7
6										
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3										
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5										
10										
4										
7										
8										
9										

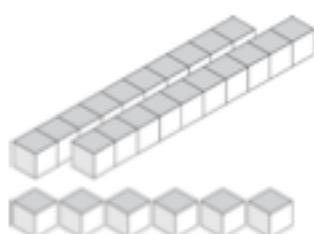
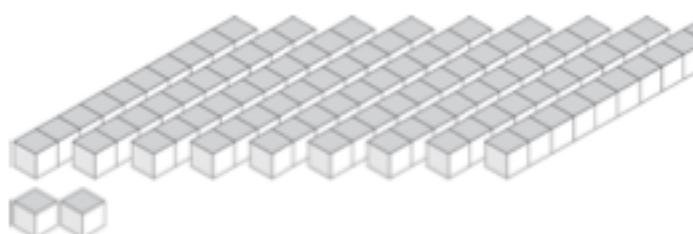
**Ke dipalo dife tse di bontshitsweng ka nngwe le nngwe ya diboloko tse?**



## Ke dipalo dife tse di latelang? Feleletsa paterone e.

- |                                |                                |
|--------------------------------|--------------------------------|
| 59, 53, 47, 41, ___, ___, ___. | 68, 67, 66, 65, ___, ___, ___. |
| 51, 46, 41, 36, ___, ___, ___. | 54, 46, 38, 30, ___, ___, ___. |
| 8, 13, 18, 23, ___, ___, ___.  | 13, 14, 15, 16, ___, ___, ___. |
| 14, 21, 28, 35, ___, ___, ___. | 16, 22, 28, 34, ___, ___, ___. |
| 10, 16, 22, 28, ___, ___, ___. | 52, 47, 42, 37, ___, ___, ___. |
| 53, 51, 49, 47, ___, ___, ___. | 5, 9, 13, 17, ___, ___, ___.   |
| 24, 31, 38, 45, ___, ___, ___. | 25, 33, 41, 49, ___, ___, ___. |
| 63, 60, 57, 54, ___, ___, ___. | 67, 63, 59, 55, ___, ___, ___. |
| 73, 65, 57, 49, ___, ___, ___. | 56, 49, 42, 35, ___, ___, ___. |
| 58, 56, 54, 52, ___, ___, ___. | 7, 10, 13, 16, ___, ___, ___.  |
| 61, 59, 57, 55, ___, ___, ___. | 2, 3, 4, 5, ___, ___, ___.     |
| 66, 63, 60, 57, ___, ___, ___. | 19, 20, 21, 22, ___, ___, ___. |
| 6, 8, 10, 12, ___, ___, ___.   | 17, 21, 25, 29, ___, ___, ___. |
| 9, 17, 25, 33, ___, ___, ___.  | 22, 26, 30, 34, ___, ___, ___. |
| 21, 28, 35, 42, ___, ___, ___. | 64, 61, 58, 55, ___, ___, ___. |

## Ke dipalo dife tse di bontshitsweng:



## Dira

$$5 + 3 = \quad 8 + 7 = \quad 9 + 5 = \quad 5 + 9 =$$

$$4 + 8 = \quad 6 + 5 = \quad 5 + 7 = \quad 9 + 3 =$$

$$7 + 3 = \quad 6 + 9 = \quad 2 + 7 = \quad 8 + 4 =$$

$$2 + 5 = \quad 7 + 7 = \quad 8 + 3 = \quad 9 + 7 =$$

$$5 + 2 = \quad 7 + 2 = \quad 7 + 9 = \quad 4 + 5 =$$

$$8 + 6 = \quad 8 + 5 = \quad 7 + 8 = \quad 9 + 2 =$$

$$4 + 7 = \quad 7 + 4 = \quad 9 + 9 = \quad 2 + 2 =$$

$$4 + 4 = \quad 4 + 2 = \quad 4 + 6 = \quad 3 + 5 =$$

$$3 + 6 = \quad 4 + 9 = \quad 9 + 4 = \quad 6 + 3 =$$

$$6 + 4 = \quad 6 + 7 = \quad 6 + 2 = \quad 3 + 3 =$$

$$5 + 8 = \quad 9 + 6 = \quad 5 + 6 = \quad 3 + 7 =$$

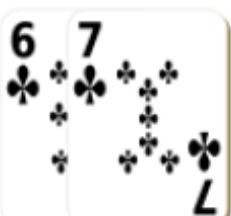
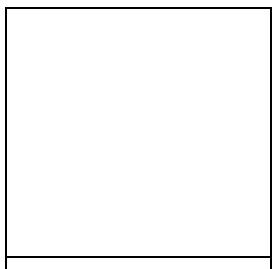
$$8 + 8 = \quad 6 + 6 = \quad 2 + 9 = \quad 2 + 8 =$$

**Sekeletsa palo e kgolo mo setlhopheng sengwe le sengwe:**

29	9	92	19	75	57	7	27	100	110	101	99	101	100		
11	10	12	21	6	65	56	66	79	77	99	66	14	34	74	24
Nngwe tlhanong halofo				nngwe nneng				nngwe thatarong							

# Go tshameka dikarata

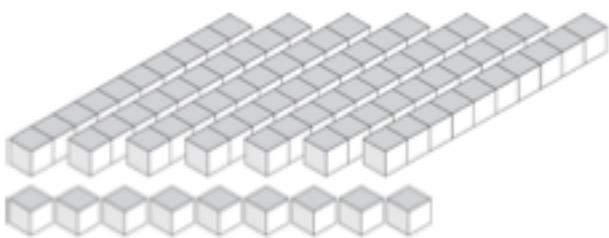
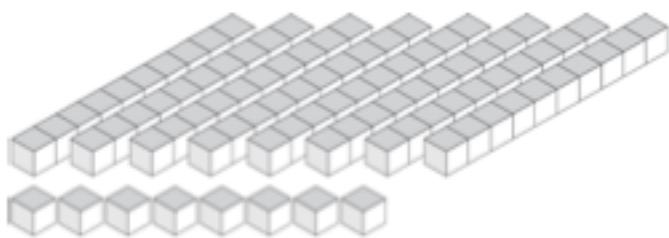
Tlhakanya sete ya dikarata. O oketse karabo gabedi. Jack, Queen & King =10. Ace =1



## Dira

$15 - 7 =$	$8 - 1 =$	$10 - 6 =$	$7 - 1 =$
$12 - 9 =$	$15 - 6 =$	$7 - 3 =$	$14 - 8 =$
$3 - 2 =$	$13 - 9 =$	$6 - 2 =$	$5 - 1 =$
$6 - 3 =$	$10 - 2 =$	$17 - 8 =$	$9 - 6 =$
$5 - 2 =$	$9 - 3 =$	$18 - 9 =$	$13 - 6 =$
$8 - 7 =$	$8 - 6 =$	$13 - 5 =$	$7 - 2 =$
$7 - 6 =$	$4 - 3 =$	$11 - 4 =$	$10 - 7 =$
$12 - 3 =$	$8 - 3 =$	$16 - 9 =$	$14 - 9 =$
$4 - 1 =$	$13 - 4 =$	$13 - 8 =$	$9 - 2 =$
$12 - 8 =$	$12 - 7 =$	$10 - 1 =$	$11 - 9 =$
$6 - 5 =$	$11 - 7 =$	$6 - 4 =$	$8 - 5 =$
$8 - 2 =$	$9 - 4 =$	$11 - 5 =$	$13 - 7 =$
$11 - 2 =$	$10 - 8 =$	$11 - 8 =$	$17 - 9 =$
$15 - 9 =$	$10 - 9 =$	$9 - 8 =$	$10 - 5 =$
$7 - 5 =$	$14 - 5 =$	$16 - 7 =$	$9 - 7 =$
$14 - 7 =$	$9 - 5 =$	$9 - 7 =$	$13 - 4 =$
$6 - 3 =$	$6 - 1 =$	$5 - 3 =$	$7 - 1 =$
$8 - 5 =$	$7 - 5 =$	$11 - 5 =$	$8 - 7 =$
$4 - 3 =$	$9 - 6 =$	$13 - 7 =$	$11 - 4 =$
$10 - 4 =$	$9 - 8 =$	$18 - 9 =$	$9 - 2 =$
$14 - 6 =$	$11 - 6 =$	$12 - 3 =$	$11 - 3 =$

**Ke dipalo dife tse di bontshitsweng fa:**



## Dira

$2 + 2 =$        $12 + 12 =$        $9 + 9 =$        $3 + 3 =$

$8 + 8 =$        $1 + 1 =$        $6 + 6 =$        $11 + 11 =$

$10 + 10 =$        $7 + 7 =$        $4 + 4 =$        $13 + 13 =$

$5 + 5 =$        $13 + 13 =$        $7 + 7 =$        $10 + 10 =$

$8 + 8 =$        $12 + 12 =$        $5 + 5 =$        $0 + 0 =$

$2 + 2 =$        $9 + 9 =$        $3 + 3 =$        $1 + 1 =$

$6 + 6 =$        $4 + 4 =$        $8 + 8 =$        $4 + 4 =$

$11 + 11 =$        $9 + 9 =$        $1 + 1 =$        $6 + 6 =$

$3 + 3 =$        $12 + 12 =$        $10 + 10 =$        $2 + 2 =$

$13 + 13 =$        $5 + 5 =$        $2 + 2 =$        $4 + 4 =$

$9 + 9 =$        $10 + 10 =$        $12 + 12 =$        $13 + 13 =$

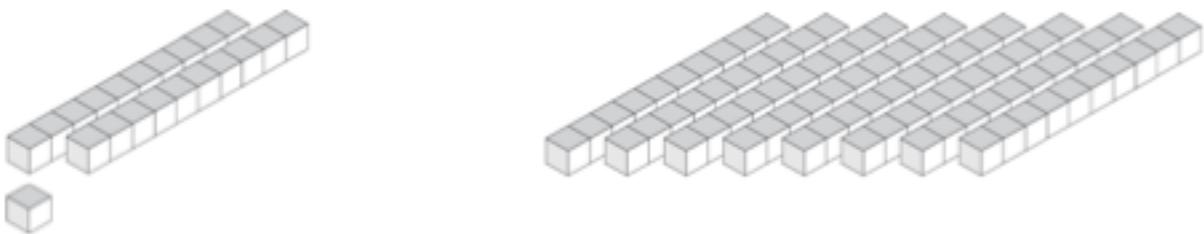
**Sekeletsa palo e nnye go setlhopa sengwe le sengwe:**

39	19	93	29	54	45	94	44	100	110	101	99	101	100	
9	90	99	39	44	54	24	104	33	22	11	3	300	100	200
halofo				nngwe tlhanong				nngwe thatarong				nngwe nneng		

Tlhakanya ditaese tsotlhe. Kwala karabo ka mafoko (leinapalo).

Sekai : Masome a mabedi nngwe	

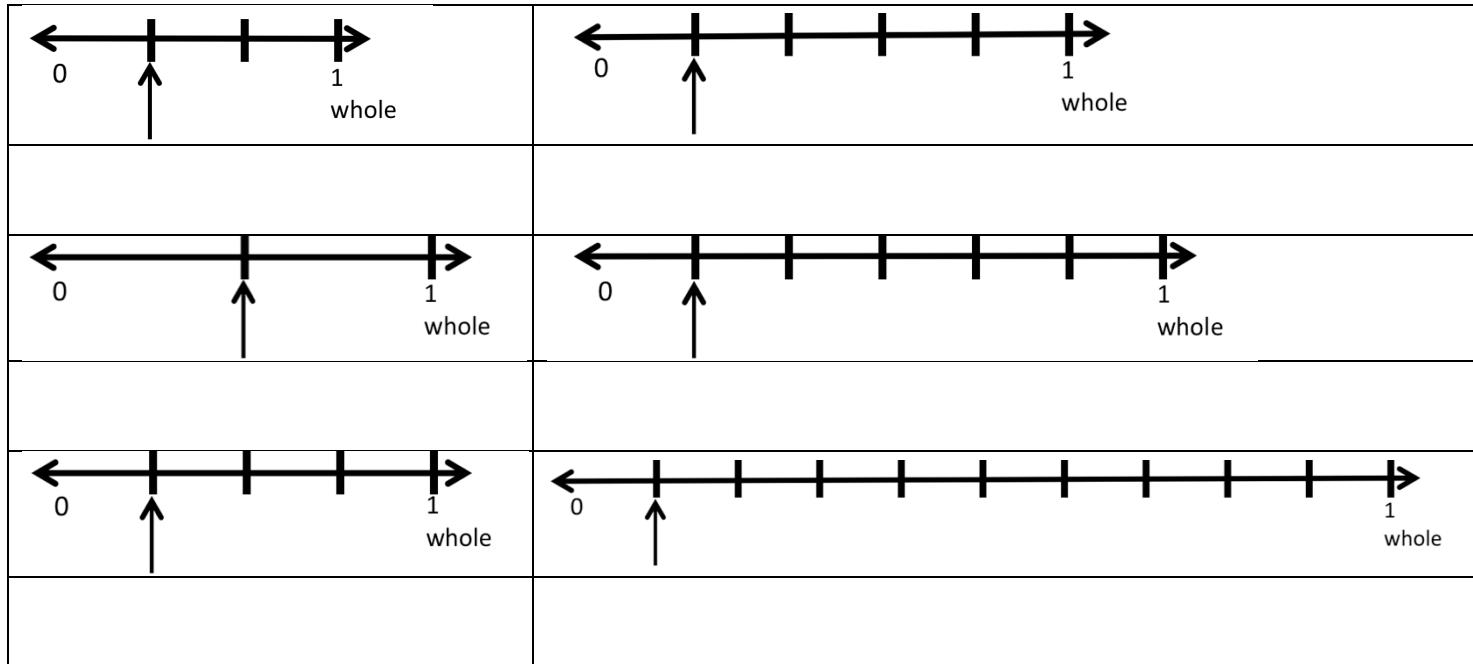
Ke dipalo dife tse di bontshitsweng ka diboloko tse?



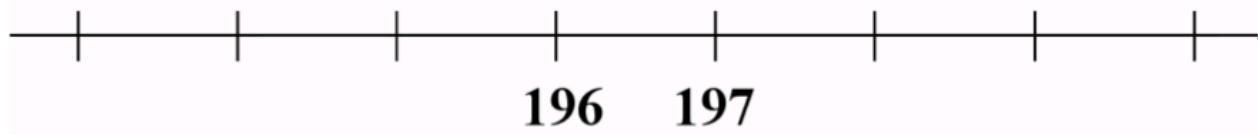
Dira dipalo tse, mme o kwale dikarabo tse di ka fa tlase ga lesome (10). Tshasa mmala mo lebokosong la karabo eo.

15-4	12-1	12-6	14-7	19-2	18-7	13-1
15-9	18-10	17-6	16-5	14-6	13-5	14-3

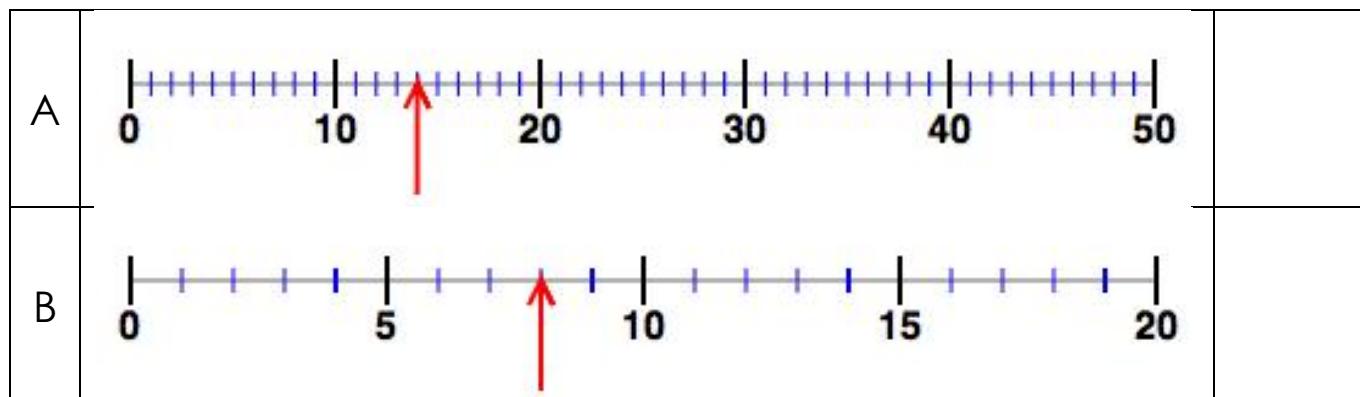
Kwala halofo, nngwe tharong, nngwe nneng, nngwe tlhanong, nngwe thatarong le nngwe someng mo tlase ga lerumo.



Tsenya dipalo tse di tlogetsweng.

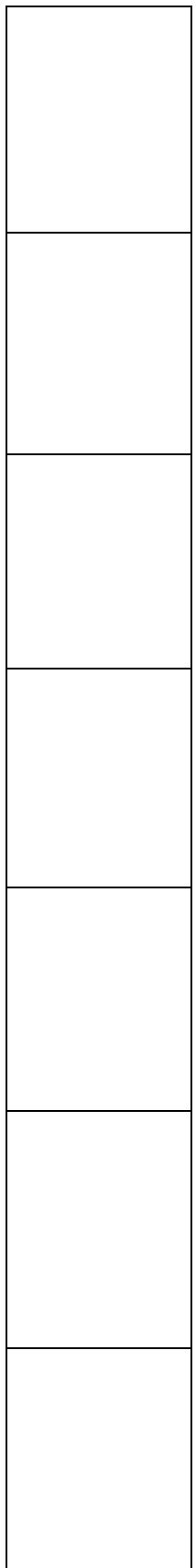
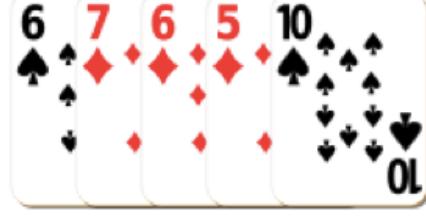
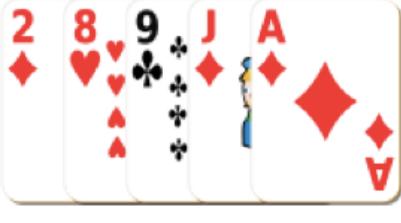
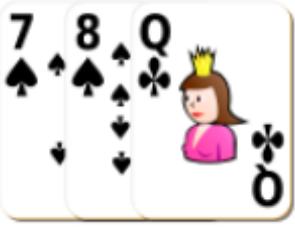
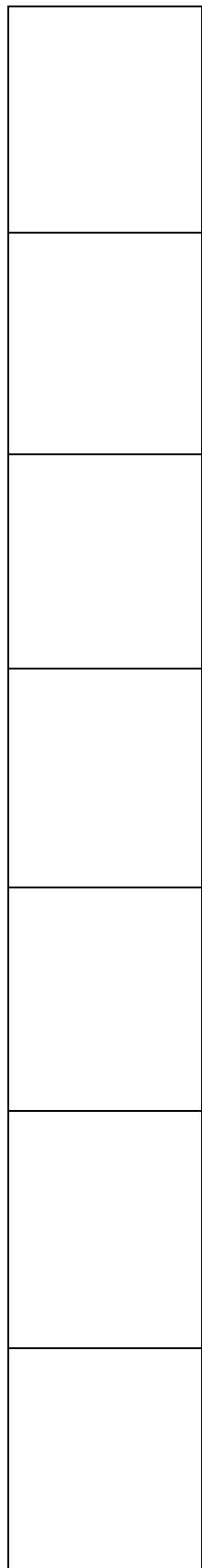
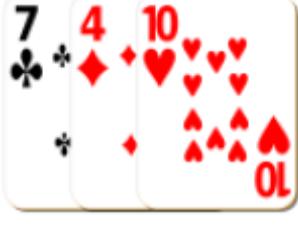


Ke palo efe e bontshitsweng ka lerumo?



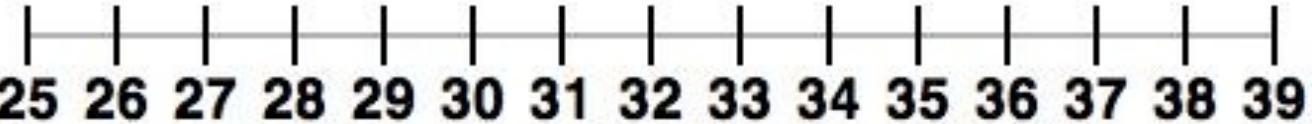
# Go tshameka Dikarata

Tlhakanya sete ya dikarata. Jack = 11, Queen = 12, King = 13 & Ace = 1.



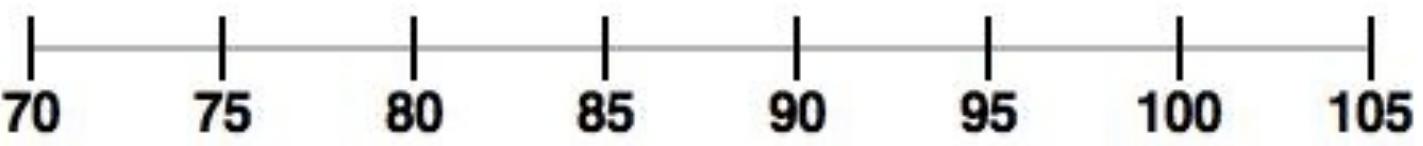
Dirisa melapalo . Ke eng:

2 go feta 27		10 go feta 26	
2 go feta 34		10 go feta 28	
2 fa tlase ga 39		10 fa tlase ga 35	
2 fa tlase ga 30		10 fa tlase ga 25	

A horizontal number line starting at 25 and ending at 39. There are vertical tick marks above each integer from 25 to 39, including 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, and 39.

5 go feta 85		10 go feta 85	
5 go feta 95		10 go feta 95	
5 fa tlase ga 105		10 fa tlase ga 105	
5 fa tlase ga 90		10 fa tlase ga 90	

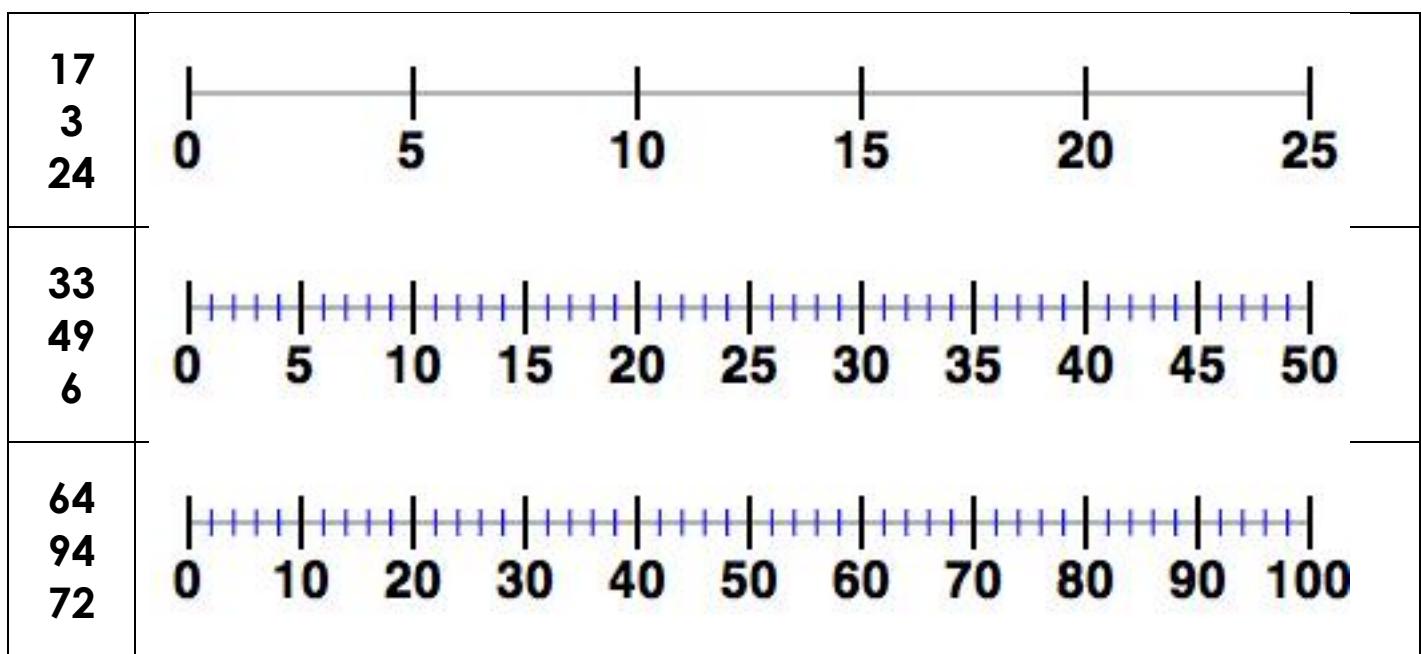
  


A horizontal number line starting at 70 and ending at 105. There are vertical tick marks above each integer from 70 to 105, including 70, 75, 80, 85, 90, 95, 100, and 105.

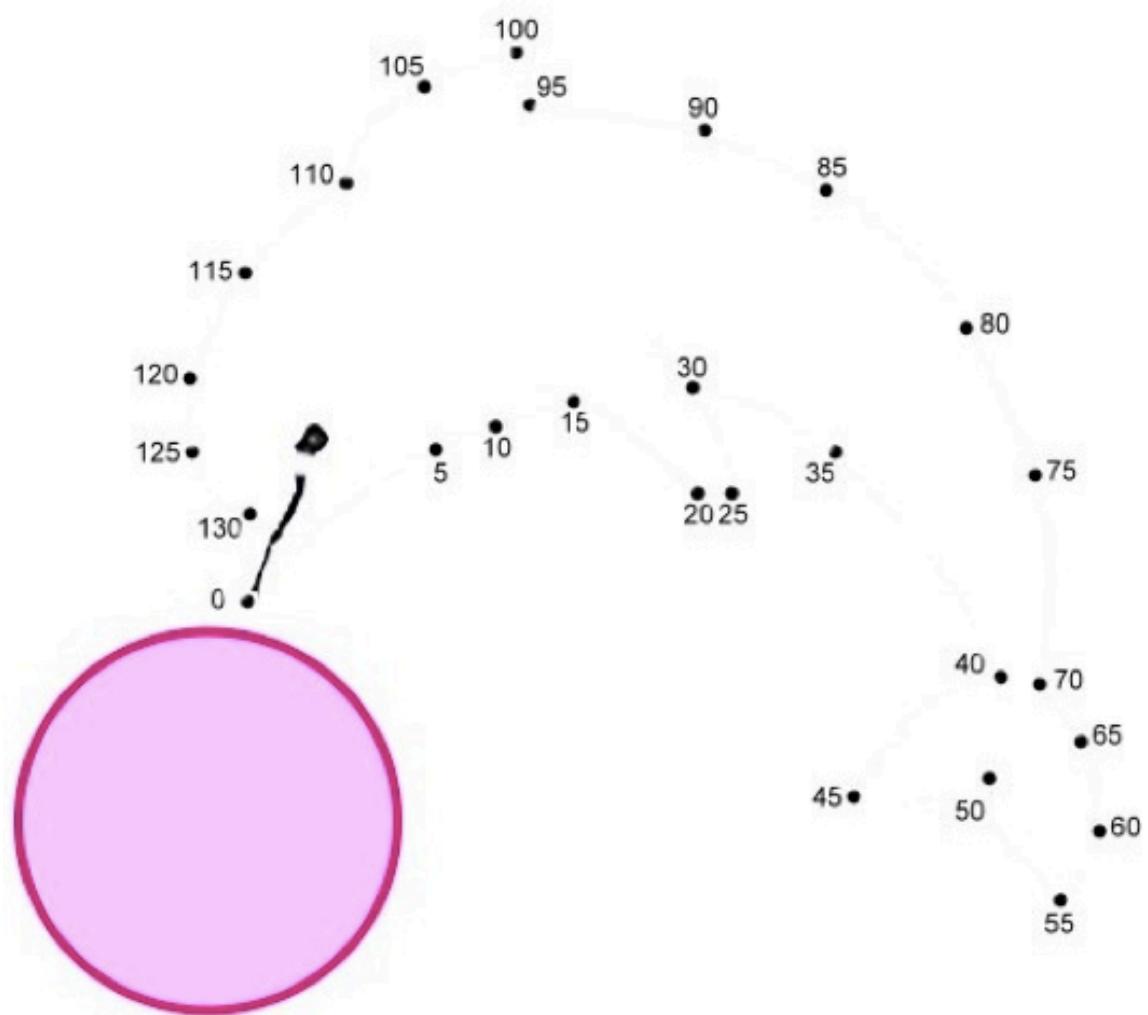
**Kwala dipalo go tloga ka e kgolo go ya go e nnye.**

11	5	2	28	28	11	5	2
30	30	9	22				
11	17	21	9				
20	19	2	31				
300	450	500	350				
61	43	67	88				

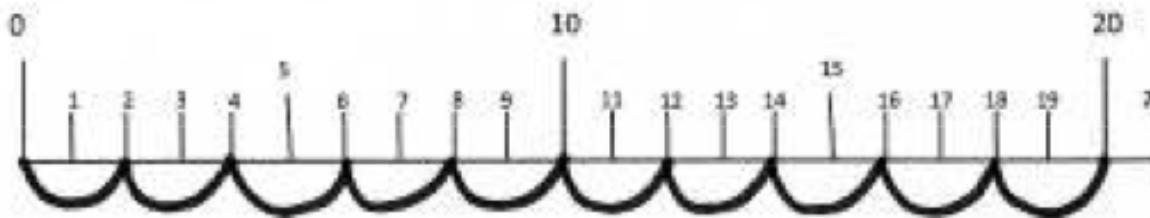
Tshwaya nngwe le nngwe ya dipalo tse mo molapalong.



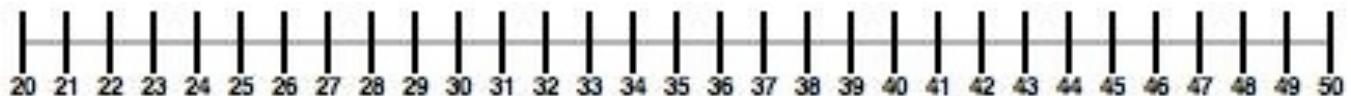
**Simolola ka 5, bala ka botlhano mme o kopanye didoto.**



Dirisa molapalo go bala ka ditlhopa. Tshwaya gore o tlola jang molapalo jaaka fa:



Bala ka 2. Tshwaya go bontsha gore o tlola jang.



Bala ka 3. Tshwaya go bontsha gore o tlola jang.



Bala ka 4. Tshwaya go bontsha gore o tlola jang.



**Kwala dipalo go tloga ka e nnye go ya go e kgolo.**

30	4	5	25	4	5	25	30
27	22	25	4				
21	15	27	1				
28	13	27	7				
40	20	50	30				
35	65	85	25				

Bana ba masome a mabedi thataro (26) mo phaposing, go tsamaile ba le robredi (8). Go tlhokega dibotlolo tsa mašwi di le kae?



Ke rekile dikuku di le masome a mararo (30). Jacob o jele dikuku di le lesomerobongwe (19). Go setse dikuku di le kae?



Rre o rulagantse metshameko e le merataro (6). Mo motshamekong mongwe le mongwe go batlega bafenyi ba le babedi (2). E mekae meputso e tshwanetseng go abiwa ke rre?



Abby o na le diphensele di le lesomerobedi (18). O neelana ka diphensele di le tlhano (5). Go setse di le kae?



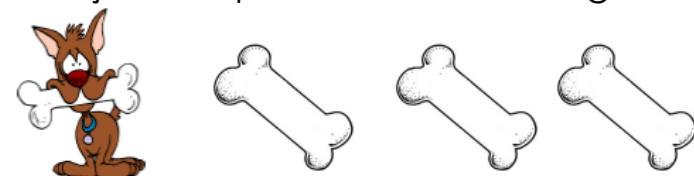
Go na le diapole di le lesomerobedi (18), dipeyere di le lesomenngwe (11), dipanana di le tlhano (5). Go na le maungo a le makae otlhe?



Go na le maotwana a le makae mo dikoloing tse robedi?



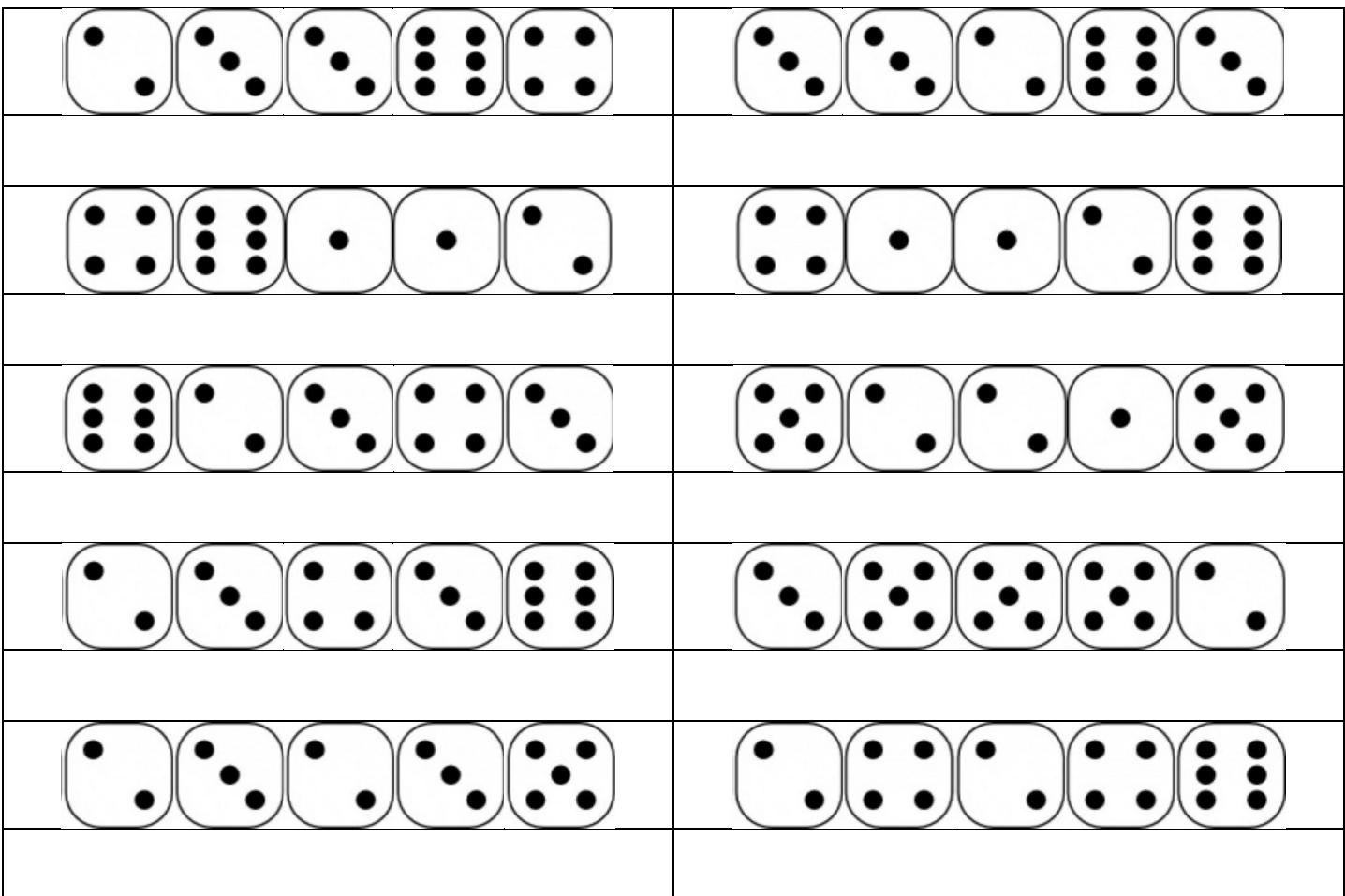
Ntša ya ka e ja marapo a le mararo (3) ka beke, e tla ja marapo a le makae ka kgwedi?



Mo tsebeng e le nngwe go na le dikgomaretsi di le masome a mabedi (20). Nna ke na le dikgomaretsi di le lekgolo(100). Ke tlhoka ditsebe tse di le kae?



## Tlhakanya didoto tsa ditaese mme o kwale karabo ka mafoko (leinapalo).



Fa karabo ya go tlhakanya e fitlha go lesome (10). Tshasa mmala mo lebokosong leo .

$3+7$	$2+2$	$1+4$	$6+3$	$6+2$	$7+3$
$3+3$	$4+6$	$8+1$	$1+7$	$9+1$	$6+2$
$4+4$	$2+2$	$0+10$	$6+4$	$5+3$	$5+2$
$4+5$	$7+4$	$5+5$	$10+0$	$2+2$	$7+4$
$8+0$	$4+6$	$2+6$	$6+1$	$9+1$	$8+1$
$2+8$	$3+5$	$4+2$	$1+1$	$6+2$	$7+3$

Tlhakanya dipalo mo moleng le mo kholomong e nngwe le nngwe mme o kwale karabo mo sekeleng. Tlhakanya dipalo tse di mo sekeleng mo moleng le mo kholomong nngwe le nngwe, mme o kwale karabo ya tsona mo lebokosong  . O lemoga eng?

Sekai:

2	2	4
3	2	5
5	4	9

5	3	<input type="radio"/>
8	6	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>

4	9	<input type="radio"/>
7	2	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>

8	3	<input type="radio"/>
7	10	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>

10	7	<input type="radio"/>
9	12	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>

13	15	<input type="radio"/>
16	11	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>

24	31	<input type="radio"/>
52	43	<input type="radio"/>
<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>

O ka dira jang dipalo tse?

	7	10
4		<input type="radio"/>
<input type="radio"/>	12	<input type="checkbox"/>

		11
3	6	<input type="radio"/>
12	<input type="radio"/>	<input type="checkbox"/>

15		21
20		<input type="radio"/>
<input type="radio"/>	23	<input type="checkbox"/>

## Challenge Page

Bala ka bolesome - 10. Palo ya bofelo e tla nna efe mo tshating? Dira palo e, mme o se tlatse tshati yotlhe.

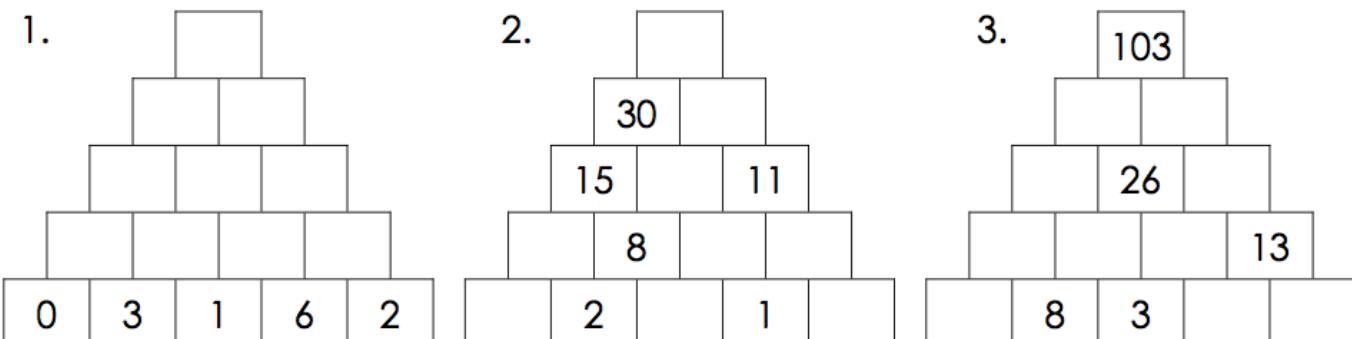
10	20	30							
110									

Bona tsela ya gago ya go tloga go lekgolo (100) go ya go sekete(1000) mo mmiding.

MELAO: O ka tsamaya ka fa molemeng, ka fa mojeng, wa ya kwa tlase fa palo e o mo go yona e le kgolo go na le boloko bo o leng mo go bona.

<b>100</b>	121	127	133	167	189	200	214	212	398
145	166	134	135	120	230	212	256	347	405
156	167	137	156	155	226	356	378	380	407
632	234	138	246	267	278	476	477	450	417
432	256	200	250	245	300	355	487	478	456
355	253	289	244	305	303	570	569	490	453
361	385	377	367	356	301	537	566	505	498
689	654	390	480	478	488	675	507	508	689
654	543	489	488	483	577	589	609	504	769
723	566	570	589	578	734	631	616	789	<b>1000</b>

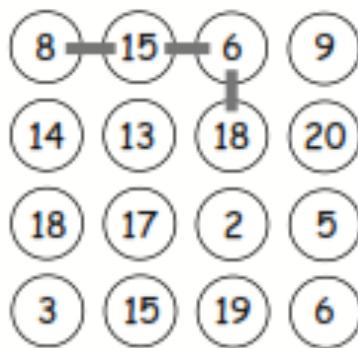
Dipalo tsa phiramiti



# Challenge Page

## Go kopanya dipalo

- Kopanya dipalo dingwe le dingwe tse nne.
- Batla karabo ya tsona.
- O ka kopanya ka go ya kwa godimo, kwa tlase kgotsa mo molemeng go ya ko mojeng e seng tse di sa lebaganang kgotsa di sa bapa mmogo.
- O ka kopanya jaana ka sekai:  $8+15+6+18=47$
- Batla karabo e kwa godimo.
- Batla karabo e kwa tlase.
- Jaanong leka go kopanya dipalo tse tlhano. Batla karabo e kwa godimo. Batla karabo e kwa tlase.
- Jaanong leka go kopanya dipalo tse tlhanong tse di sa lebaganang kgotsa di sa bapa mmogo. Batla karabo e kwa godimo. Batla karabo e kwa tlase.



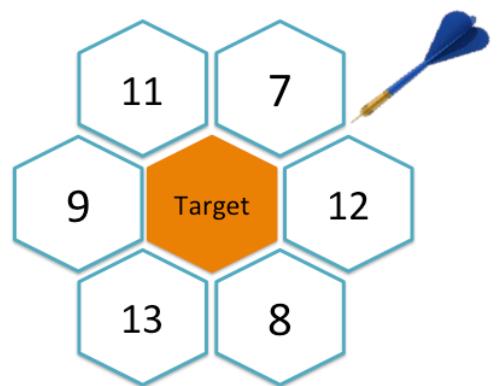
## Go dira Terete

Ke na le diapole tse lesome (10). Ke dirisa apole e le nngwe le halofo ya apole go dira terete nngwe le nngwe. Ke ya go dira diterete tsa apole di le kae ?

Bontsha gore o dira palo jang.

## Go latlhela Darete

- O fitheletse dintlha tse kae ka darete tse pedi?
- O tlhoka didarete tse kae go bona dintlha di le masome a mararo thataro (36)?
- A o ka bona dintlha di le 20 ka didarete tse 2?
- A o ka bona dintlha di le masome a mabedi (20) ka tsela tse difetang e le nngwe?
- Bona ditsela tsotlhe tsa go bona dintlha di le masome a mabedi (20).
- Ke dintlha dife tse dintsitse o ka di bonang ka didarete tse pedi?
- Ke dintlha dife tse dinnye tse o ka di bonang ka didarete tse pedi (2)?



Dikoko tsa ga molemi Brown di beela mae a le (25) ka letsatsi le letsatsi. Di tla beela mae a le makae ka beke (1) e le nngwe?



Fa bana ba le barataro ba dula mo tafoleng (6), ke bana ba le bakae ba ba tla dulang mo ditafoleng di le pedi (2)?



Roboto e tlhoka dibeteri tse nne (4). Ke dibeteri tse kae tse di tlhokwang ke diroboto tse tharo (3)?



Batshameki ba le lesomenngwe (11)ba tshameka kgwele ya dinao. Ke batshameki ba le ba kae gotlhelele ba ba tla tshamekang motshameko wa kgwele ya dinao?



Ntlo ya dikoko e tsaya dikoko di le tlhano (5). Fa go na le dintlo tsa dikoko tse thataro (6) tse di tletseng, di ka nna le dikoko di le kae?



Taylor o na le dikerayone di le lesomenngwe (11). Amy o na le tse lesomerobongwe (19). Pharologanyo ke bokae?



Mmutla o ja digwete tse pedi (2) ka letsatsi, tse nne (4) ka letsatsi le le latelang, tse thataro (6) ka letsatsi la boraro. Ke digwete di le kae tse di jelweng gotlhelele?



Go na dimabole di lesome (10) mo lebotlolong. Tse tlhano (5) tsa latlhega. Tsa okediwa ka di le lesomepedi (12). Go na le tse kae jaanong?

