1. Complete.

20   40   100   180

30   60   90   180

2. There are 48 boys and 32 girls in a class. How many learners are there in the class?

3. Complete.

23 + ___ = 30   52 + 8 = ___   27 + ___ = 30

23 + ___ = 40   52 + 18 = ___   127 + ___ = 130

23 + ___ = 50   52 + 28 = ___   127 + ___ = 150
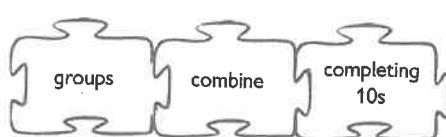
23 + ___ = 60   62 + 28 = ___   147 + ___ = 180

23 + ___ = 100   62 + ___ = 100   147 + ___ = 200

groups   combine   completing 10s
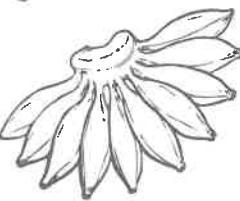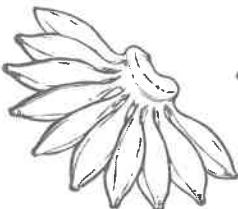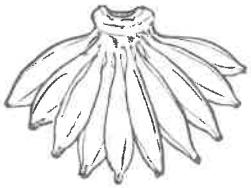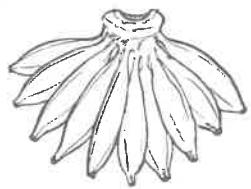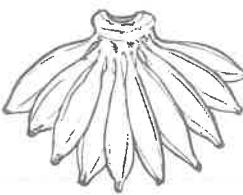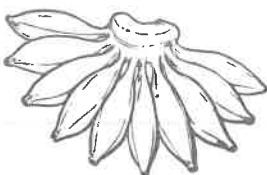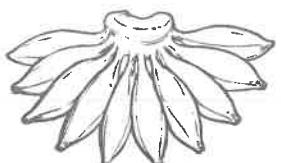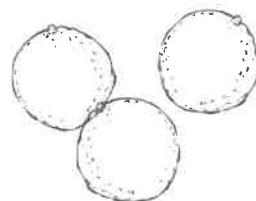
1. How many?

_____ bunches

_____ bananas

2. How many?
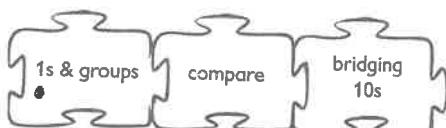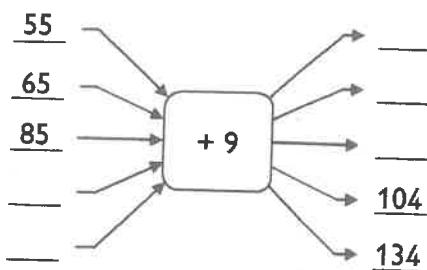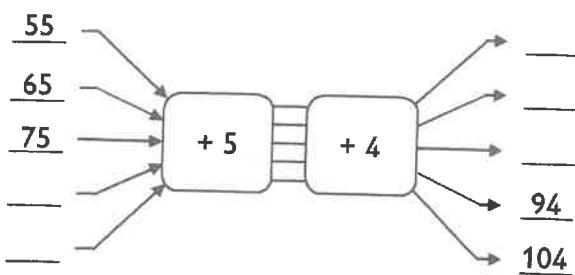
Bunches		1	2	3	4		8		
Bananas		10	20	30		50			150
Cost (K)		1,000	2,000					9,000	
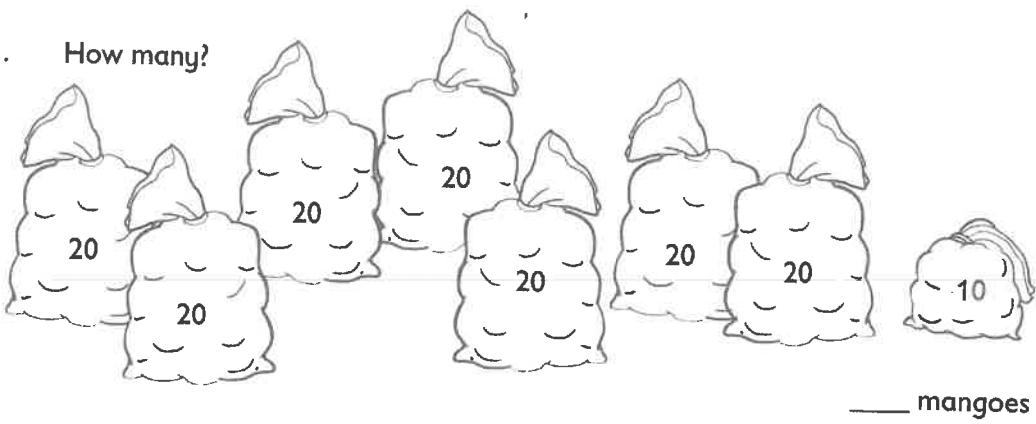
3. Mphatso has 62 oranges. Tawina has 28 oranges. How many more oranges does Mphatso have?

4. Complete.

55
65
75
_____
_____

+ 5   + 4

_____
_____
_____
94
104

55
65
85
_____
_____

+ 9

_____
_____
_____
104
134

1s & groups   compare   bridging 10s

2

1. How many?

20 20 20 20 20 20 20 20 10
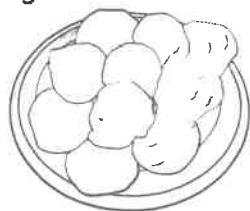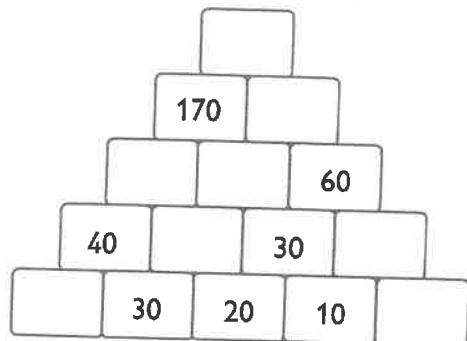
_____ mangoes

2. Victor sold 80 of his mandasi. He has 30 mandasi left. How many mandasi did he start with?

3. Complete.

```
              [   ]
          [170] [   ]
       [   ] [   ] [60]
     [40] [   ] [30] [   ]
   [   ] [30] [20] [10] [   ]
```

4. Complete.

110 ─ +20 → [   ] ─ +10 → [   ] ─ → 160 ─ −10 → [   ] ─ +20 → [   ]
                                                              │
                                                             −10
                                                              ↓
[   ] ← −10 ─ [   ] ← +20 ─ [   ] ← +10 ─ 170 ←   [   ] ← +20 ─ [   ]

groups   change   multiples of 10
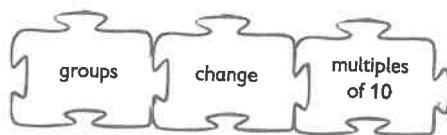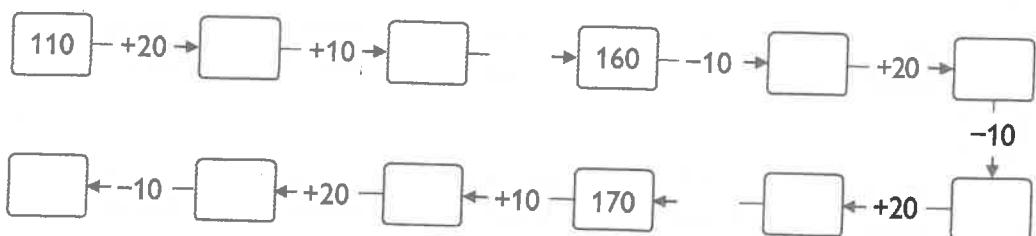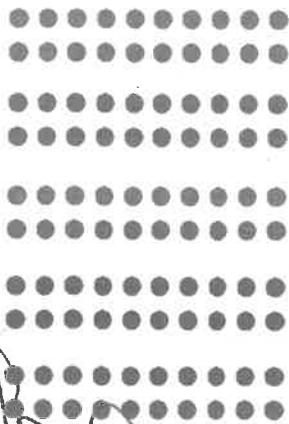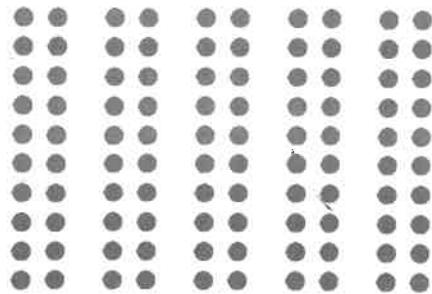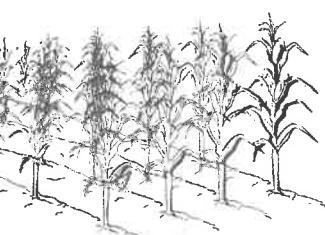
1. How many?

100 dots

100 dots

2. Together, Jack and Jane harvested 115 cobs of maize. If Jane harvested 56 cobs, how many cobs did Jack harvest?
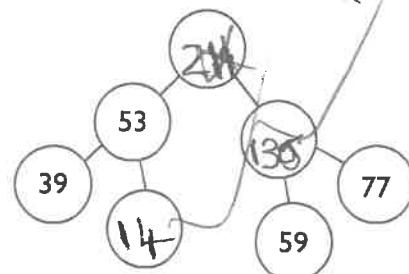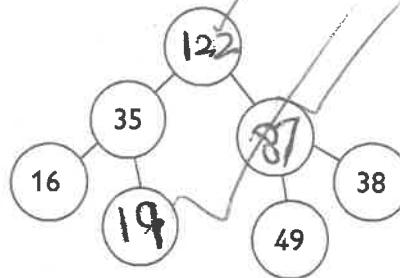
115 cobs
−56 cobs
59 cobs

115 cobs
−56 cobs
59 cobs

3. Complete the addition bubbles.

122
35
16
19
87
38
49

204
53
39
14
138
77
59
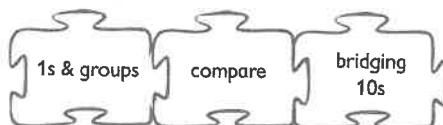
4. Complete.

155 → +12 → ☐ → +15 → ☐ → −13 → ☐ → → 202 → → 221

221 +18 ↓ ☐

☐ ← +80 ← 241 ← → ☐ ← −16 ← ☐ ← −8 ← 253 ← ☐

1s & groups | compare | bridging 10s
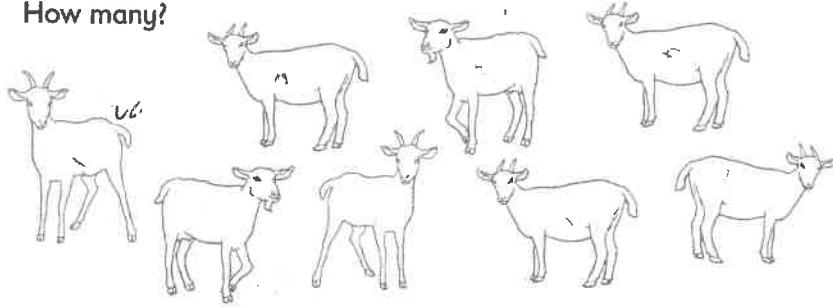
1. How many?

_____ goats

_____ eyes

_____ legs

2. Complete.

Goats	1	2	3	8	7	10	14	50
Eyes	2	4	100	8	20	20	40	100
Legs	4	8	12	160	28	80	56	200

3. Tiwonge has 256 bags of soya beans. Tamanda has 108 bags of soya beans. If they put their bags together, how many bags will there be?

H me work
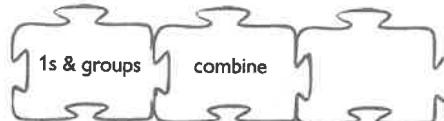
256 bags
+ 180 bags
3 5 bags

4. Complete.

$164 + 57 = \boxed{221}$

$78 + \boxed{43} = 121$

$266 - \boxed{153} = 113$

$72 - 38 = \boxed{113}$

1s & groups   combine
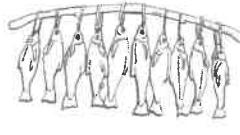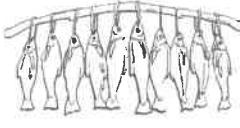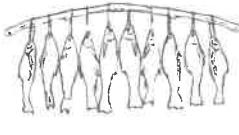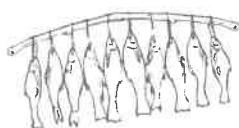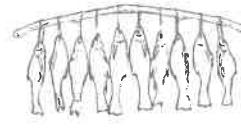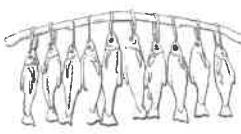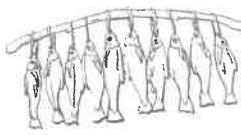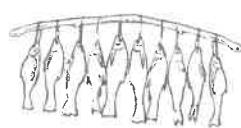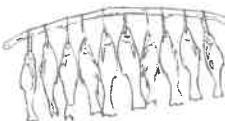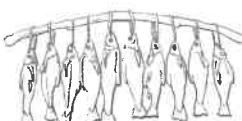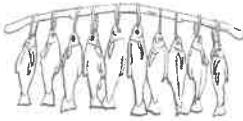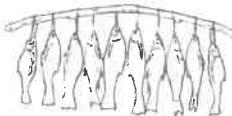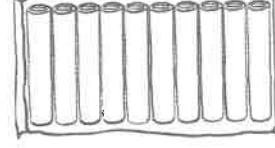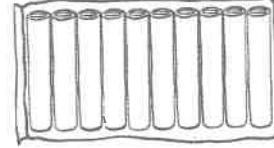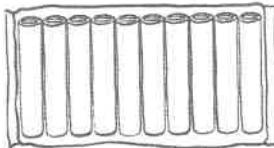
1. How many?

_____ fish

2. Complete.

Sticks	1	2	3			7	8	10		20	25
Fish	10	20	30	40					150		

3. A farmer has 80 tomatoes. He puts 10 tomatoes in a packet. How many packets can he fill?

Charles says: There are 30 kamba bars. I write it like this: 3 groups of 10 = 30

Violet says: There are 30 kamba bars. I write it like this: 3 × 10 = 30

4. Complete.

4 × 10 = ___   ___ × 10 = 30

8 × 10 = ___   ___ × 10 = 60

12 × 10 = ___   ___ × 10 = 180
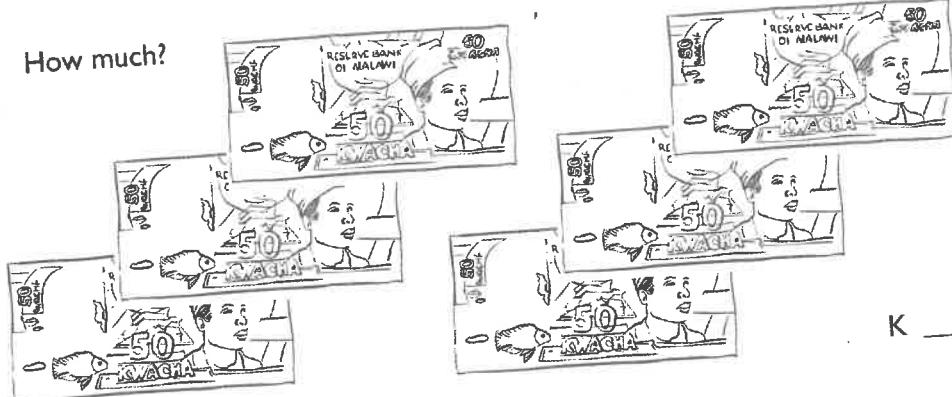
1s & groups   grouping   multiples of 10

1. How much?

    K ____
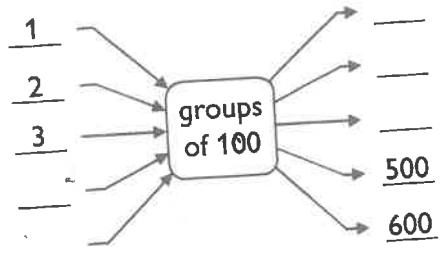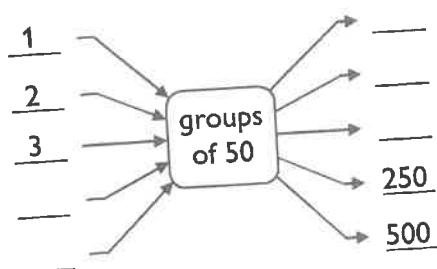
2. Complete.

K50 notes	1	2	3	4	5	8	10	15
Amount (K)	50	100						

3. There are 4 buses on a trip. Each bus carries 50 passengers.
    How many passengers are on the trip?

4. Complete.

    1 ____
    2 ____   groups   ____
    3 ____   of 50   ____
    ____   250
                                    500

    1 ____
    2 ____   groups   ____
    3 ____   of 100   ____
    ____   500
                                    600

5. Complete.

    2 × 50 = ____   2 × 100 = ____

    4 × 50 = ____   4 × 100 = ____

    8 × 50 = ____   8 × 100 = ____

    groups groups groups

1. How many?

20 20 20 20 20 20 20 20 20 20 20 20 20

10 10 10 10 10 10 10 10 10

_____ mangoes

2. Complete.

3 6 9   30

30   120 150 180
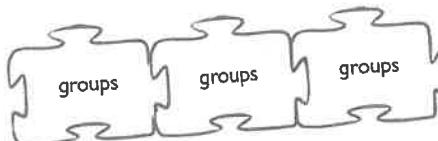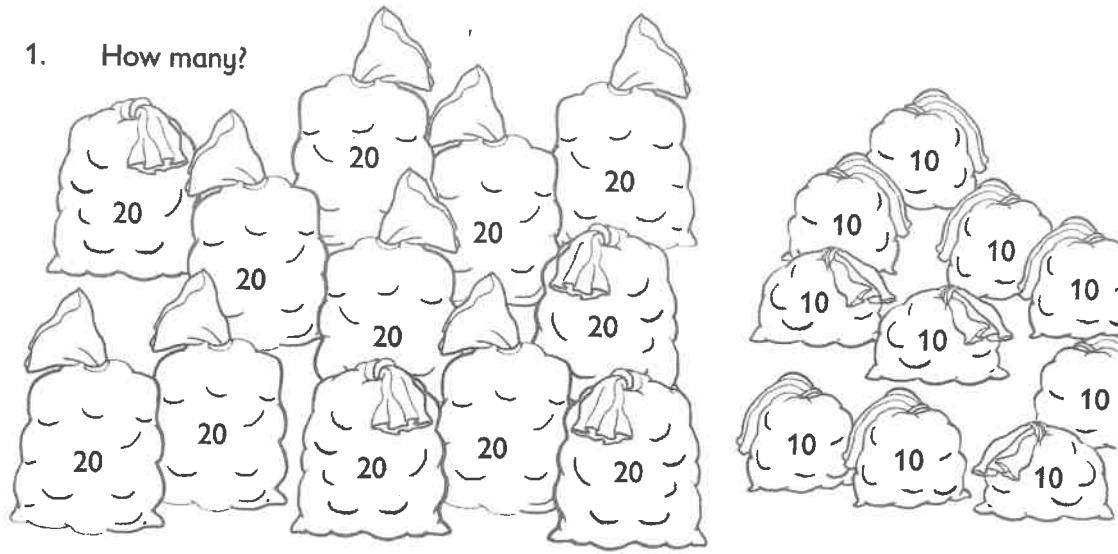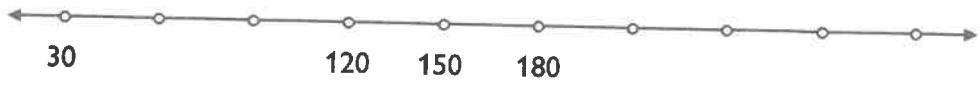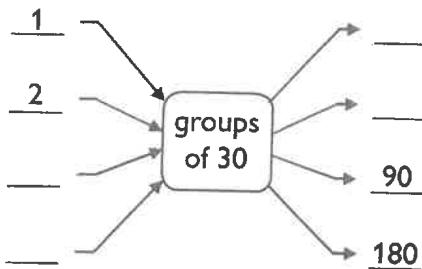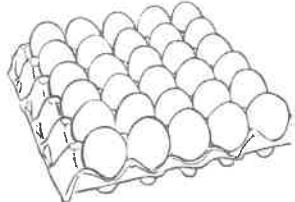
3. Mrs Mwale bought 12 trays of eggs. There are 30 eggs in each tray. How many eggs did she buy?

4. Complete.

1
2
___   groups
           of 30
___

___   90
___   180

2 × 30 = ___

4 × 30 = ___

8 × 30 = ___

16 × 30 = ___

groups   groups   groups
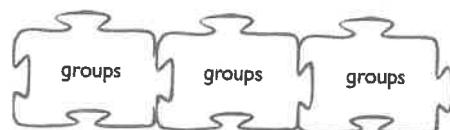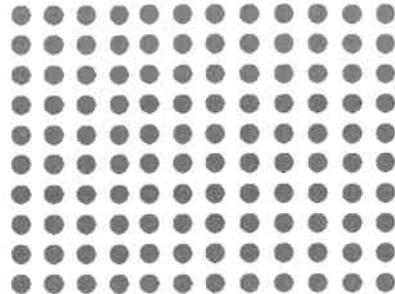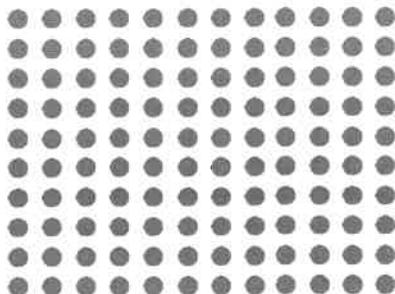
1. How many?

_____ dots

2. Complete.
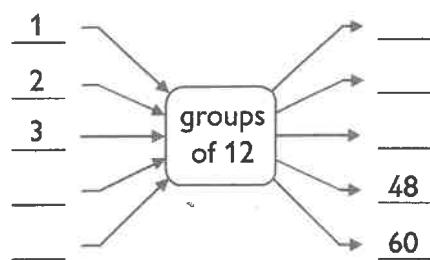
| Boxes of soap	1	2	3	4	5	6	7	8	10	12
Bars of soap	12	24	36							

3. 4 children share 48 sweets equally. How many sweets will each child get?

4. 3 children share 48 sweets equally. How many sweets will each child get?

5. Complete.

1 ____
2 ____
3 ____
____ → groups of 12 → 48
____ → 60

10 × 12 = ____
20 × 12 = ____
30 × 12 = ____
____ × 12 = 480
____ × 12 = 600

groups   sharing   groups

1. How much?

K50 · K50 · K50 · K50 · K50 · K50 · K50 · K50
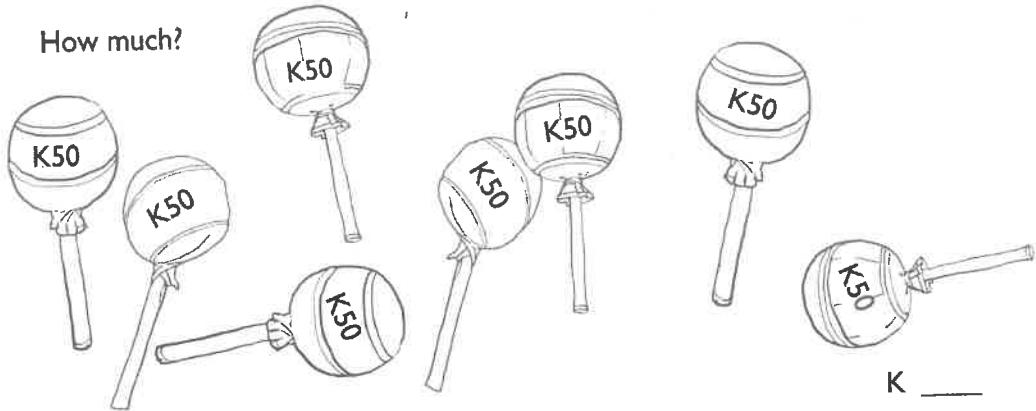
K _____

2. A farmer has 150 mangoes. She packs an equal number of mangoes in each box. How many mangoes will there be in each box if there are:

- 10 boxes?

- 5 boxes?
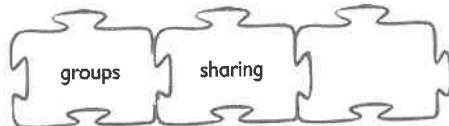
3. Complete.

☐ groups of 10 = 180
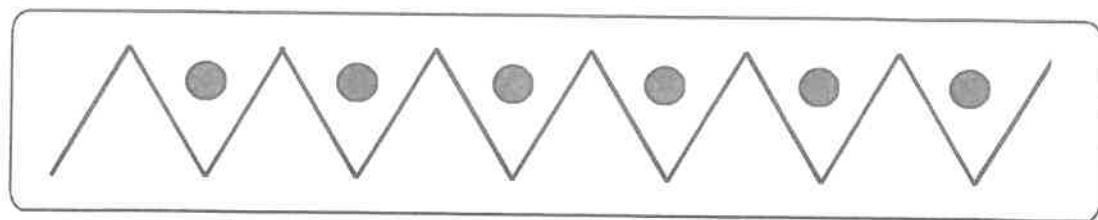
$5 \times 30 = $ ☐

☐ groups of 50 = 400

$20 \times$ ☐ $= 240$

groups · sharing
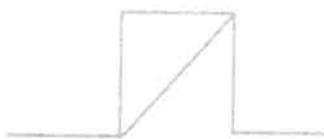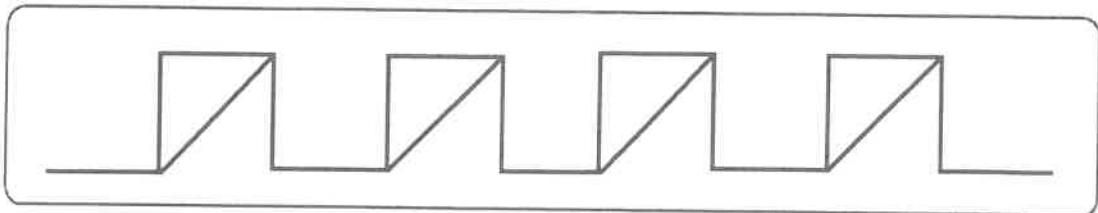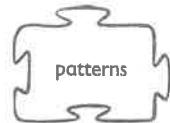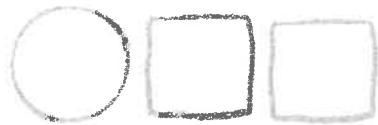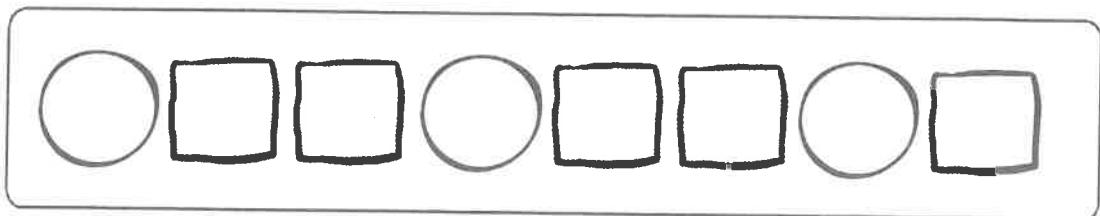
1. Copy the pattern.

2. Copy the pattern.
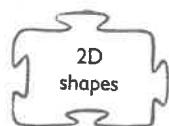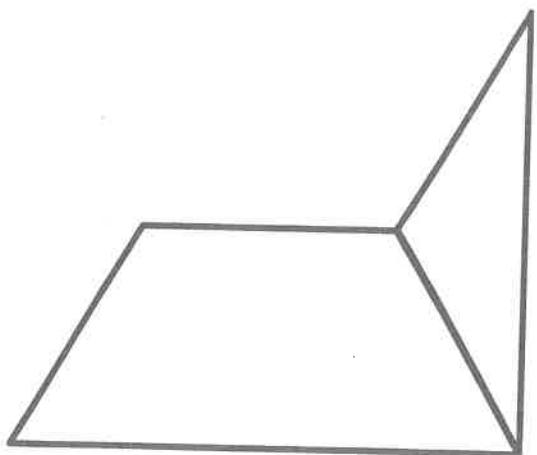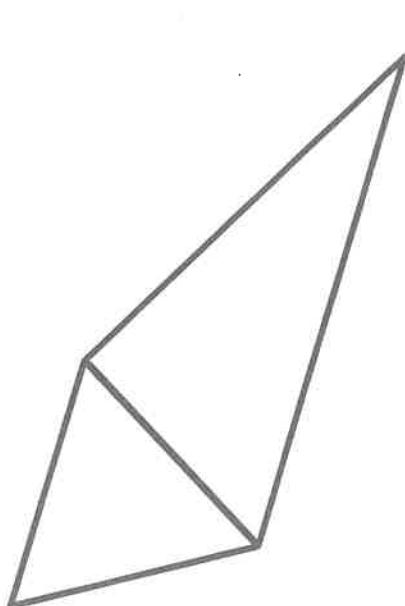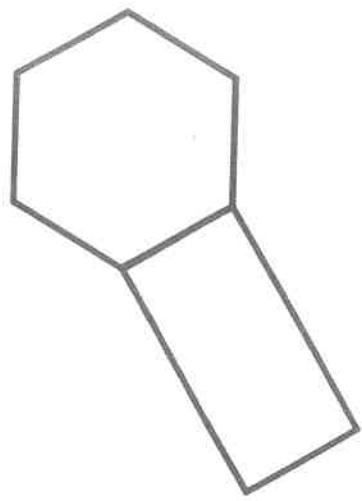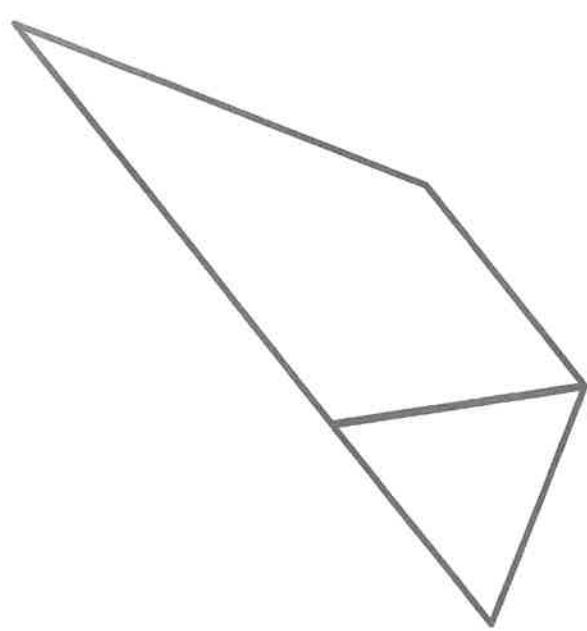
3. Copy the pattern.
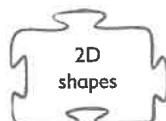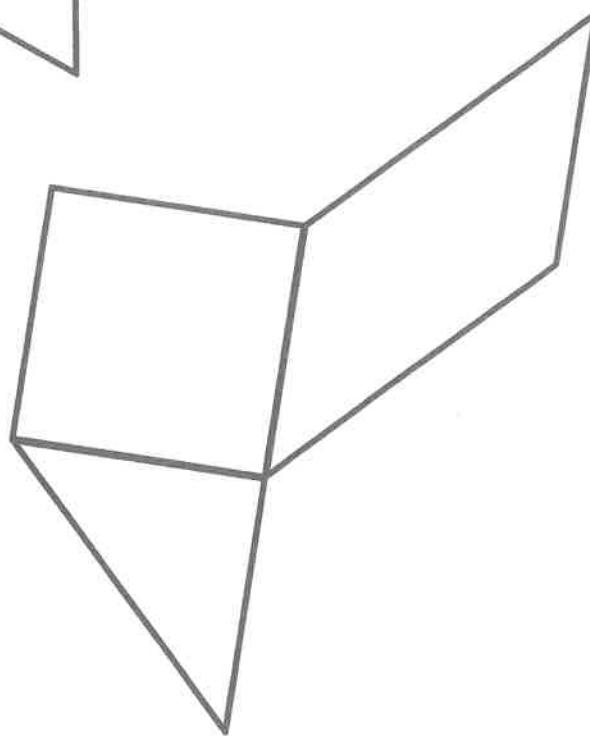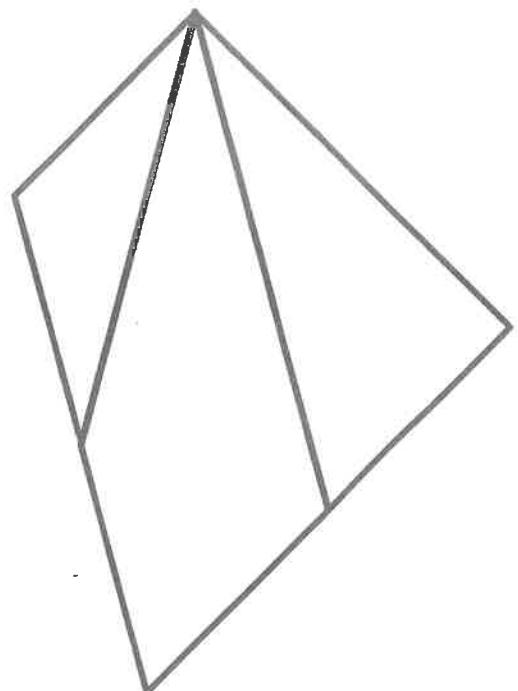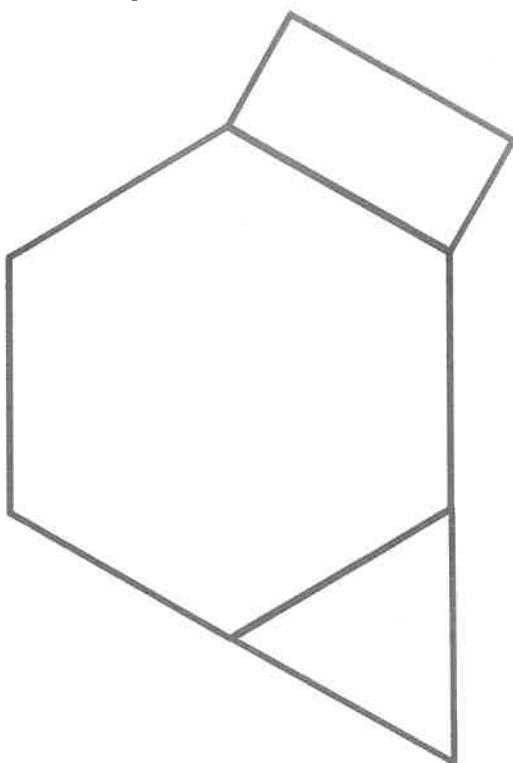
patterns

Select from your shapes to match the drawings. Write the numbers of the shapes on the drawings.

2D
shapes
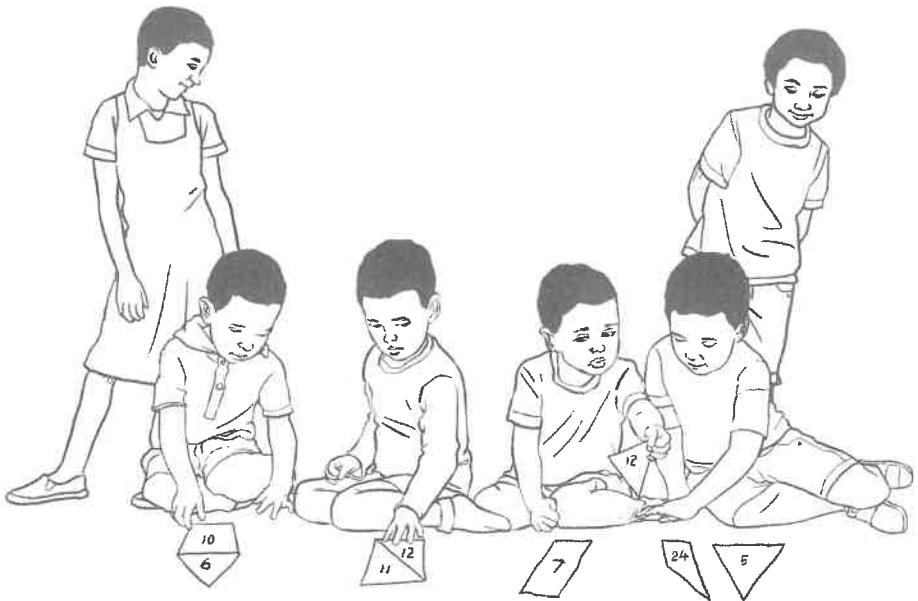
Select from your shapes to match the drawings. Write the numbers of the shapes on the drawings.

2D
shapes
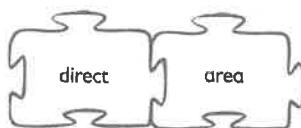
Work with your teacher and friends. For each set of the geometry shapes, make a pl
and determine which combination of shapes is larger than the other.
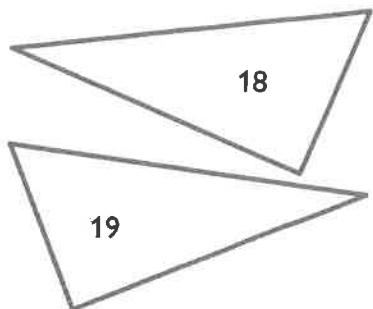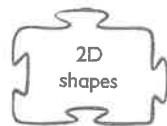

1. Compare the combination of shape 6 and shape 10 with the combination of shape 11 and shape 12.

2. Compare the combination of shape 7 and shape 12 with the combination of shape 5 and shape 24.

3. Was it easier to compare the combination of shapes in question 1 or in questic 2? Why do you say so?

direct   area
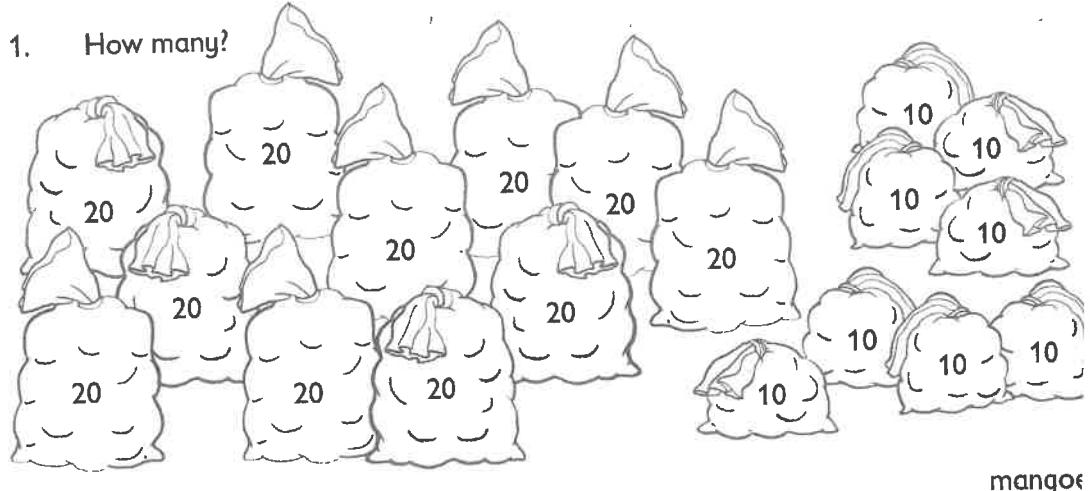
How many different drawings can you make by joining shapes 18 and 19? Trace the drawings you make and write the numbers of the shapes on the drawings.

18

19

2D
shapes
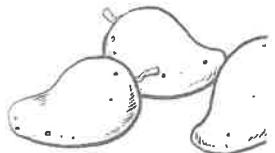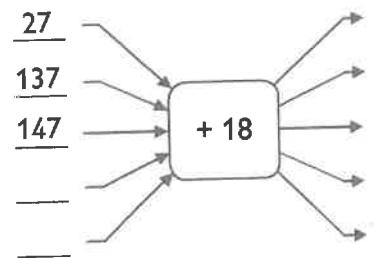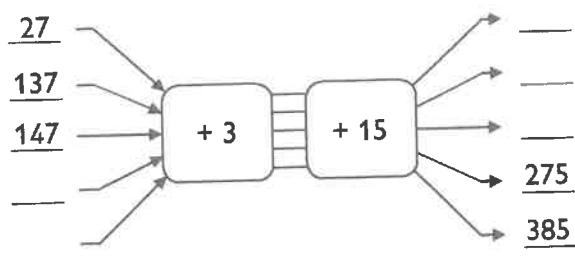
1. How many?

_____ mangoes

2. Judith harvested 277 mangoes. Joseph harvested 326 mangoes. How many mangoes did they harvest altogether?


3. Complete.

27
137
147
_____   → + 3 → + 15 →   _____
               _____
               _____
               275
               385

27
137
147
_____   → + 18 →   _____

4. Complete.

17 —+18→ ☐ —+18→ ☐ —+29→ ☐ —+29→ ☐
                                      +29 ↓
240 ← ☐ ← 211 ← ☐ ← 193 ← ☐ ← +29 ← ☐ ← +29

[groups] [combine] [bridging 10s]

1. How many?

50 kg 50 kg 50 kg 50 kg 50 kg 50 kg 50 kg 50 kg 50 kg 50 kg 50 kg

_____ kg
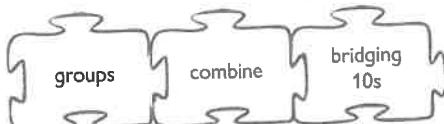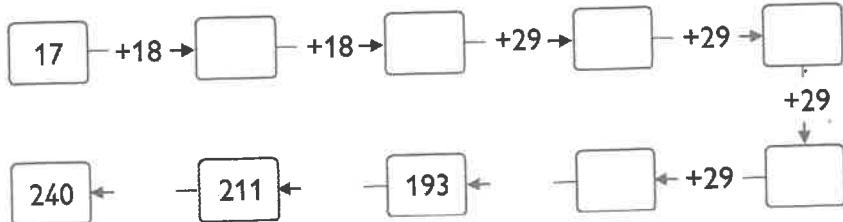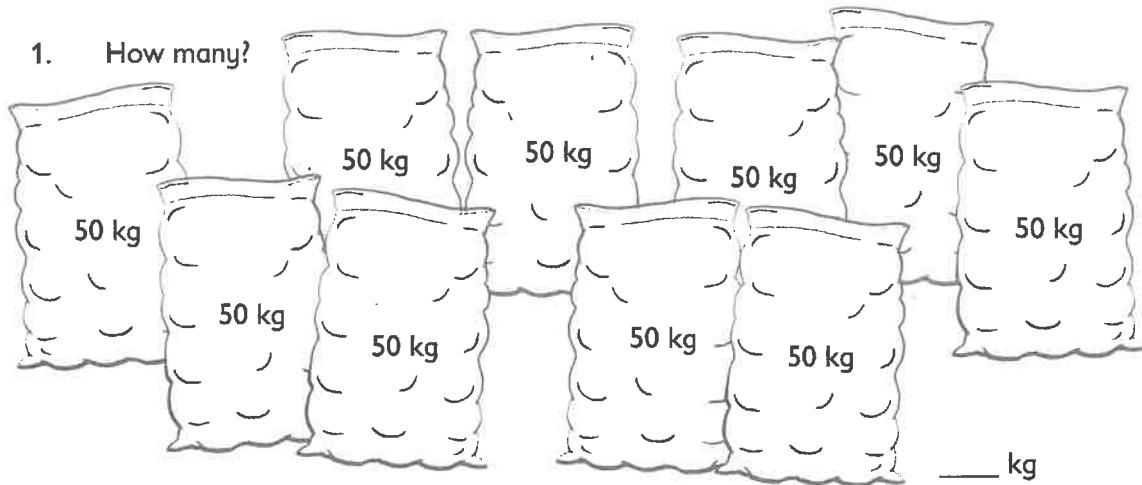
2. Mtisunge has 52 potatoes. Her father gives her some more potatoes. Now she has 380 potatoes. How many potatoes did her father give her?

3. Complete.

$10 + 5 =$ _____ $89 - 9 =$ _____

$410 + 5 =$ _____ $289 - 9 =$ _____

$510 + 15 =$ _____   _____ $- 9 = 380$

_____ $+ 25 = 545$ $489 - 19 =$ _____

$530 + 35 =$ _____   _____ $- 29 = 560$

4. Complete the addition bubbles.

195   60
145
70

20   30
233
210
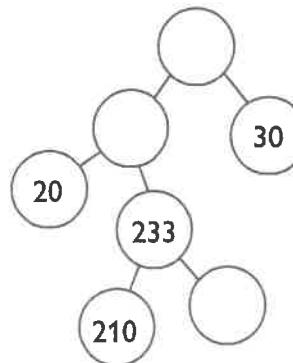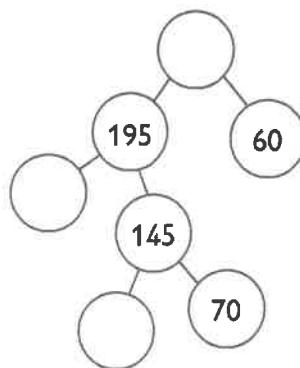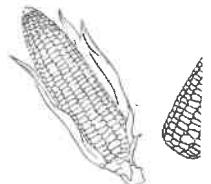
groups   change   add/subtract to 10s
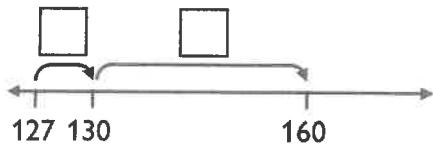
1. Complete.

Bags	1	2	3		5	8	10	15	
Maize cobs	40	80	120	160					800

2. Bwetu has 437 maize cobs. Weluzani has 363 maize cobs. How many maize co
    do they have altogether?
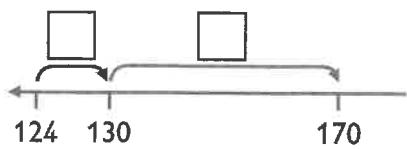
3. Complete.
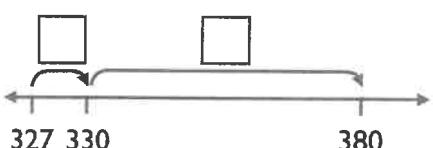
127 + ☐ = 160
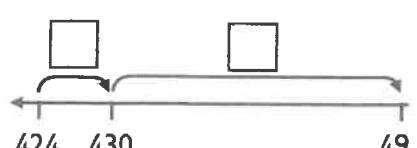
☐   ☐

127 130   160

124 + ☐ = 170

☐   ☐

124   130   170

327 + ☐ = 380

☐   ☐

327 330   380

424 + ☐ = 490

☐   ☐

424   430   49

127 + ___ + ___ = 160

227 + ___ + ___ = 270

327 + ___ + ___ = 380

427 + ___ + ___ = 490

124 + ___ + ___ = 170

224 + ___ + ___ = 280

324 + ___ + ___ = 390

424 + ___ + ___ = 500

groups   combine   completing 10s

1. How many?

100 100 100 100 100 100

10 10 10 10 10 10 10
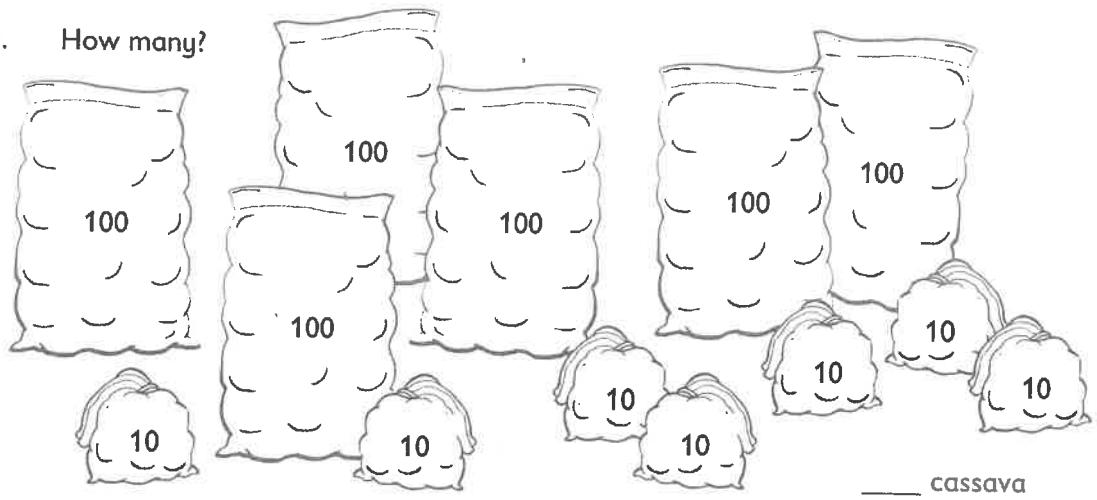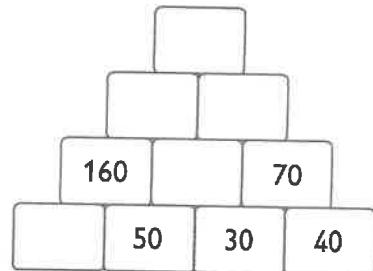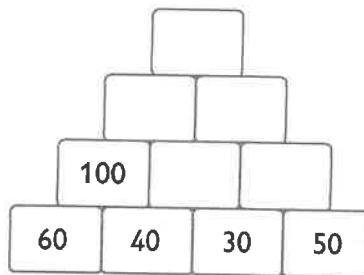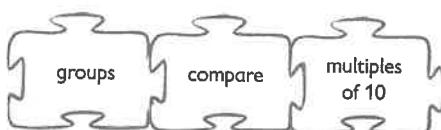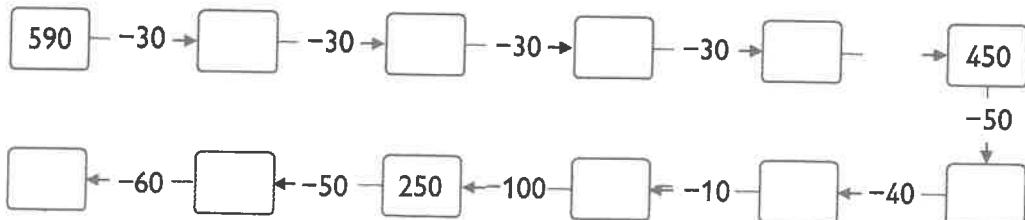
_____ cassava

2. Mr Phiri harvests 550 cassava. Mr Banda harvests 70 cassava. How many more cassava does Mr Phiri harvest?

3. Complete.

100	
60	40	30	50

160		70
	50	30	40

4. Complete.

590 — −30 → ☐ — −30 → ☐ — −30 → ☐ — −30 → ☐ — → 450

−50

☐ ← −60 — ☐ ← −50 — 250 ← −100 — ☐ ← −10 — ☐ ← −40 — ☐

groups   compare   multiples of 10

1. Complete.

100   200   600

200   400   800   1,400

250   300   500

2. Luse harvested 697 maize cobs. She sold some of her maize cobs. Now she has 42 maize cobs. How many maize cobs did she sell?
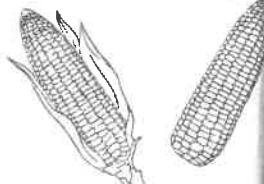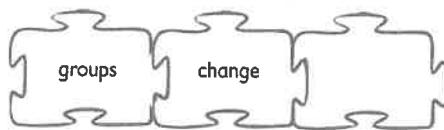
3. Complete.

$\boxed{}$ + 65 = 282   323 + $\boxed{}$ = 500

373 − 85 = $\boxed{}$ 510 − $\boxed{}$ = 312

groups   change
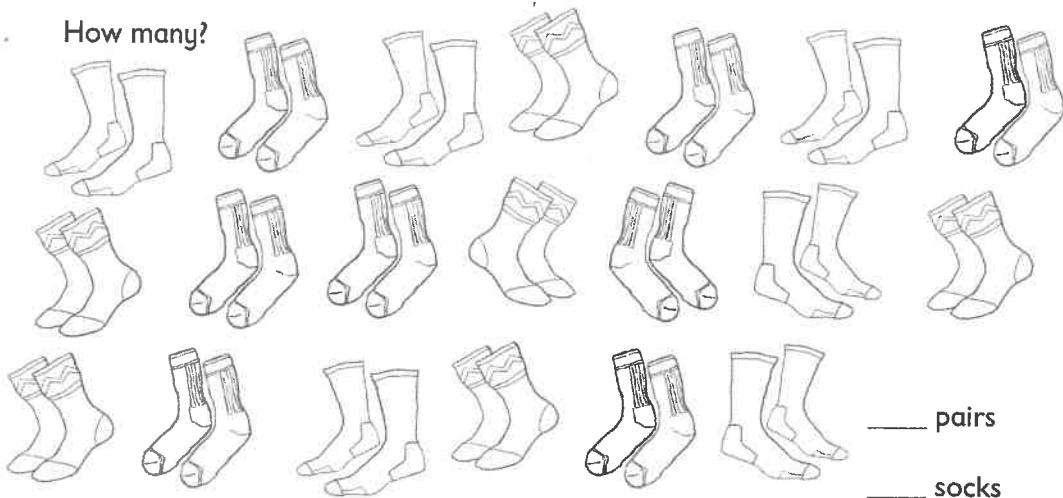
1. How many?
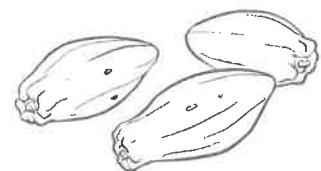
_____ pairs

_____ socks

2. Complete.

Pairs of socks	1	2	3	5	10	15	20	50		
Socks	2								200	300
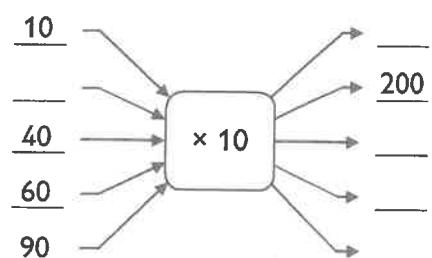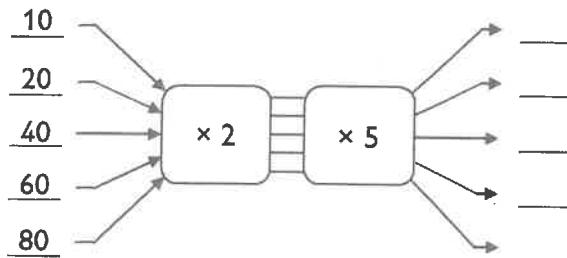
3. Rhoda has 28 pawpaws. She puts 2 pawpaws in a basket. How many baskets can she fill?
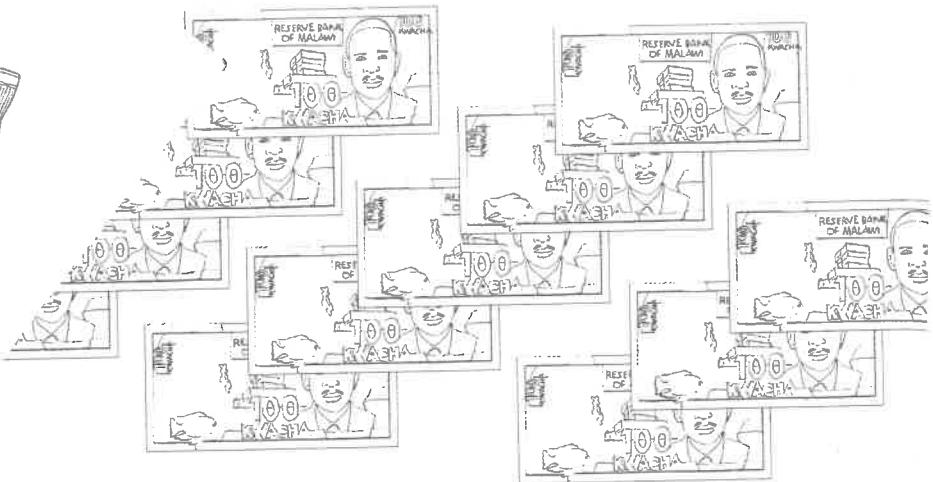
4. Cecelia has 35 pawpaws. She puts 2 pawpaws in a basket. How many baskets can she fill?

5. Complete.

10
20
40   × 2   × 5   _____
60   _____
80   _____
                    _____
                    _____

10
_____   × 10   200
40   _____
60   _____
90   _____

1s & groups   grouping   groups

1. C

K _____

2. Complete.

K100 notes	1	2	3	5	6		10	15		
Amount (K)	100					800			2,000	2,
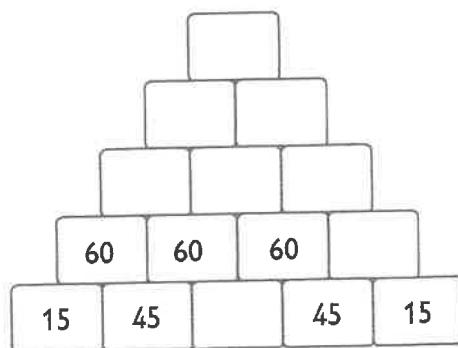
3. 5 children share K200 equally. How much does each child get?
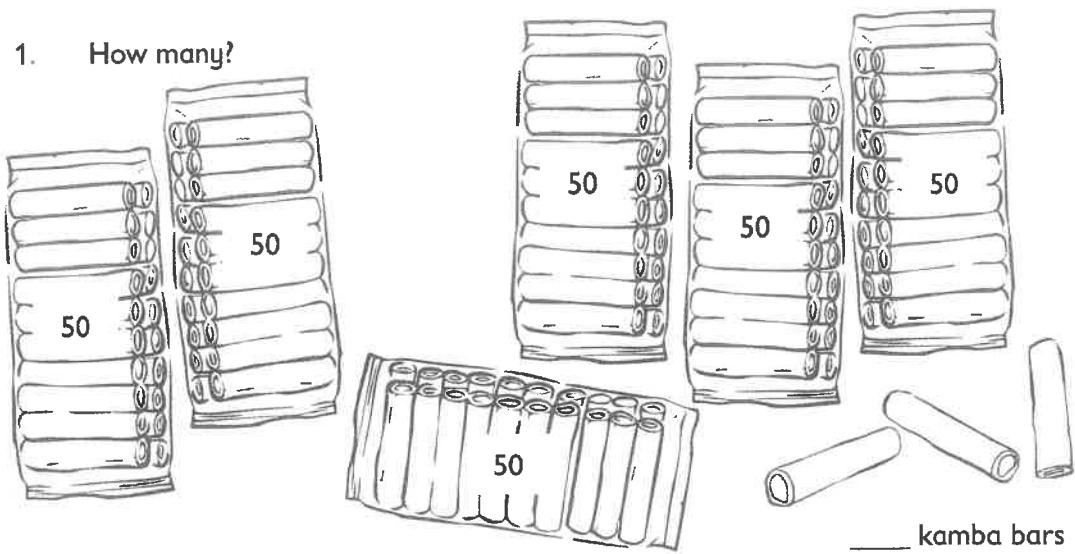
4. 5 children share K235 equally. How much does each child get?

5. Complete.

	60	60	60	
15	45		45	15

groups | sharing | completing 10s

1. How many?

50   50   50   50   50   50   50

_____ kamba bars
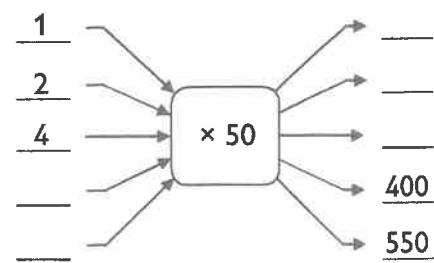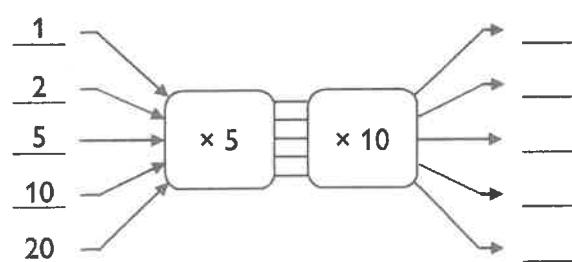
2. Complete.

Bags	1	2	3	4	5	6			10	12
Kamba bars	50	100					350	400		

3. Alice, Madalo and Limbi share 15 kamba bars equally. Show them how to do it.

4. 4 children share 17 kamba bars equally. Show them how to do it.

5. Complete.

1
2
5
10
20

× 5   × 10   ___ ___ ___ ___ ___

1
2
4
___
___

× 50   ___ ___ ___ 400 550

groups   sharing, fractions   groups
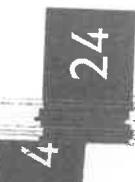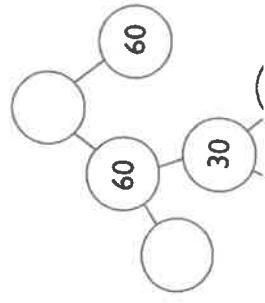
1. Complete.

Children	10	20	30
Eyes	20	40	60

2. 2 children share 26 kamba bars equally.

3. 5 children share 26 kamba bars equally.

4. Complete the addition bubbles.

60   60

30
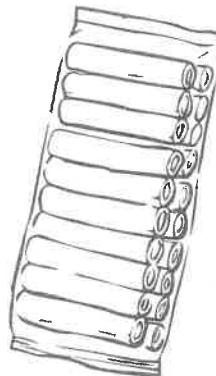
1. Complete.

| Hands	1	2	3	4	5	10			50	100
Fingers	5	10					100	200		

2. 5 children share 82 notebooks equally. How many notebooks will each child get?

3. 5 children share 41 kamba bars equally. Show them how to do it.

4. Complete.

$43 \times \boxed{} = 430$

$43 \times 5 = \boxed{}$

$\boxed{} \div 10 = 62$

$620 \div 5 = \boxed{}$

groups

sharing, fractions
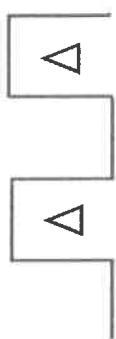
1. Extend the two patterns and create your own pattern using 2 different shapes.
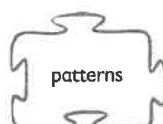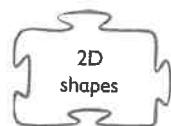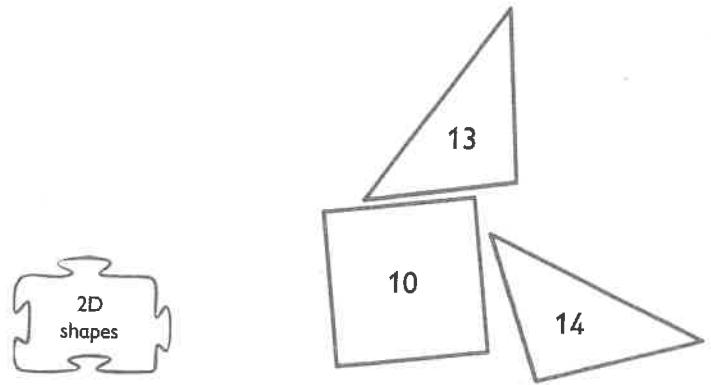
2. Complete the patterns.

- 5 ; 10 ; 15 ; ____ ; ____ ; ____ ; ____ ; ____ ; ____ ; ____ ; 55

- 4 ; 8 ; 12 ; ____ ; ____ ; ____ ; ____ ; ____ ; ____ ; ____ ; 44

patterns

How many different drawings can you make by joining shapes 10, 13 and 14? Trace the drawings you make and write the numbers of the shapes on the drawings.

2D shapes

13

10

14
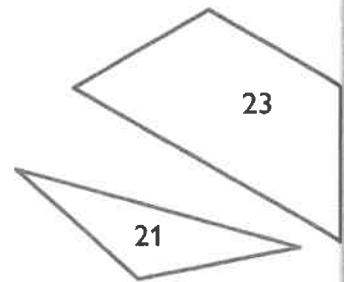
How many different drawings can you make by joining shapes 21 and 23? Trace the drawings you make and write the numbers of the shapes on the drawings.

23

21
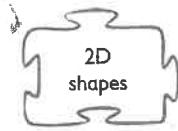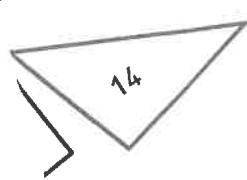
different drawings can you make by joining shapes 22 and 23? Trace the
make and write the numbers of the shapes on the drawings.

2.   (

•

•

14

2D
shapes
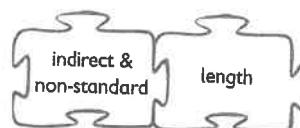
Amina measured the length of a table using matchsticks. She says that the table is 32 matchsticks long. Tiyamika measured the length of the same table using pencils. She says that the table is 8 pencils long.


1. Tiyamika measured the length of her bag to be 2 pencils long. What is the length of Tiyamika's bag in matchsticks?

2. Amina used matchsticks to measure the length of a classroom. She determined that the length of the classroom is 264 matchsticks. What is the length of the classroom in pencils?

3. Measure the same window in your school using matchsticks and pencils. Complete the table.

|	Number of matchsticks	Number of pencils
Length of window		
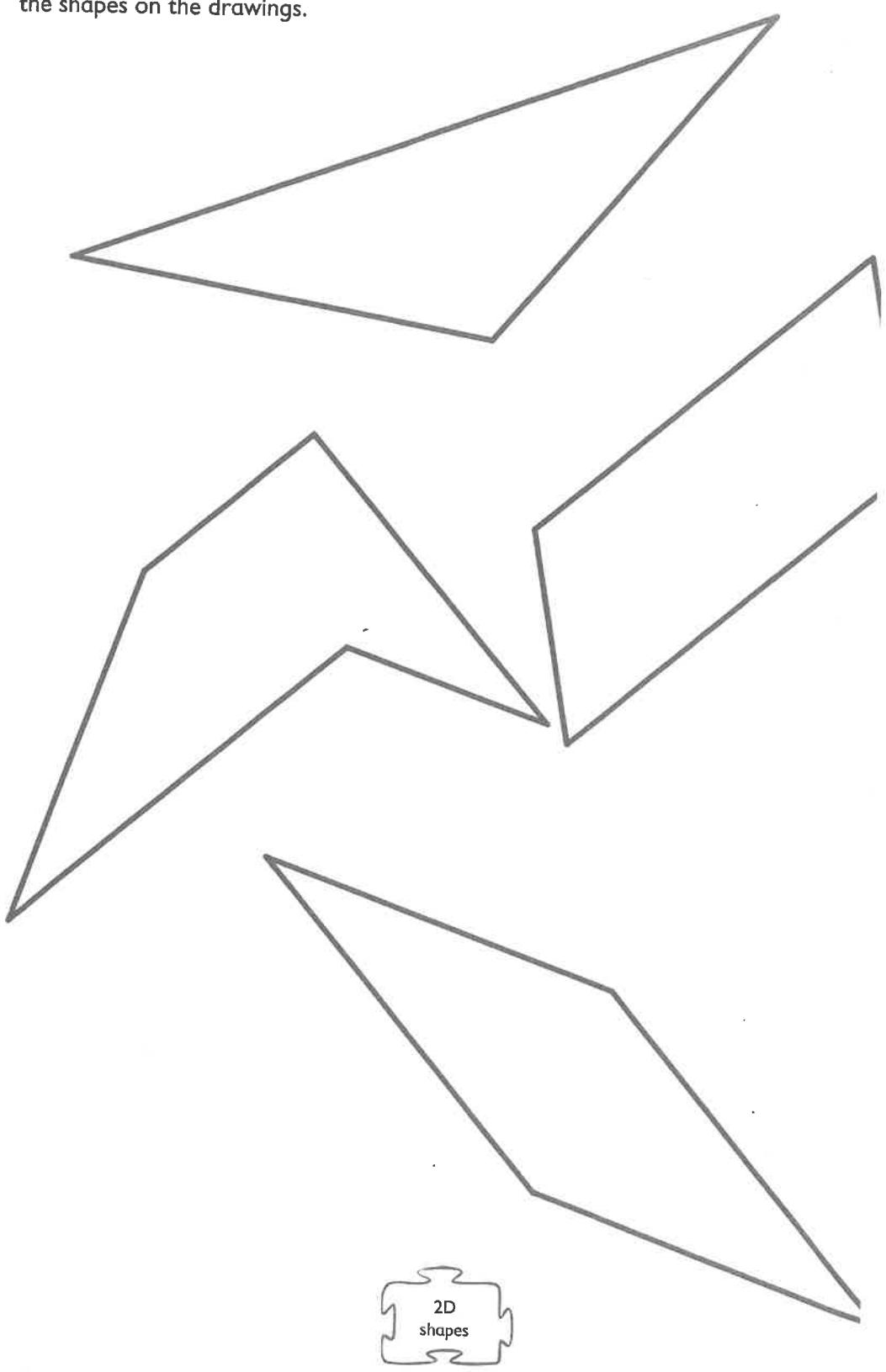
4. Measure the length of a chalkboard using pencils only.

5. Use the length you determined with pencils to predict the length of the chalkboard in matchsticks.

6. Use matchsticks to check your prediction about the length of the chalkboard.

indirect & non-standard   length
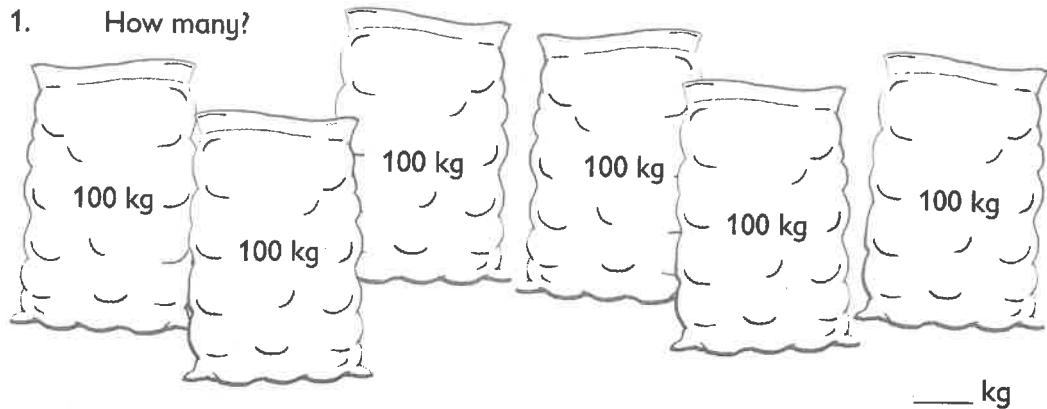
Use shapes 21 and 24 to make the drawings. Trace the shapes and write the number the shapes on the drawings.

2D
shapes

1. How many?

100 kg   100 kg   100 kg   100 kg   100 kg   100 kg

_____ kg

2. Complete.

100   200   600

150   250   450   750
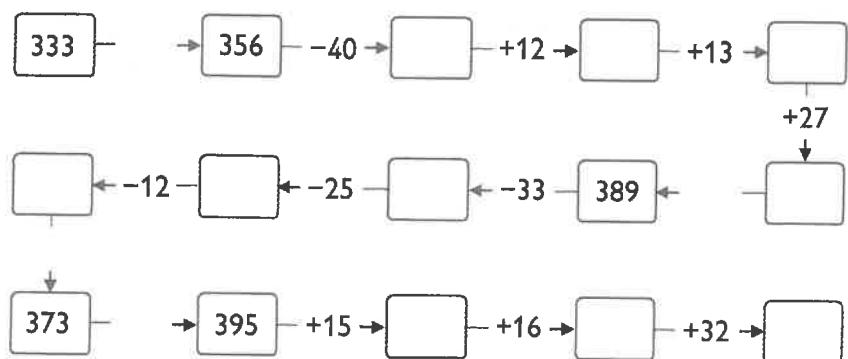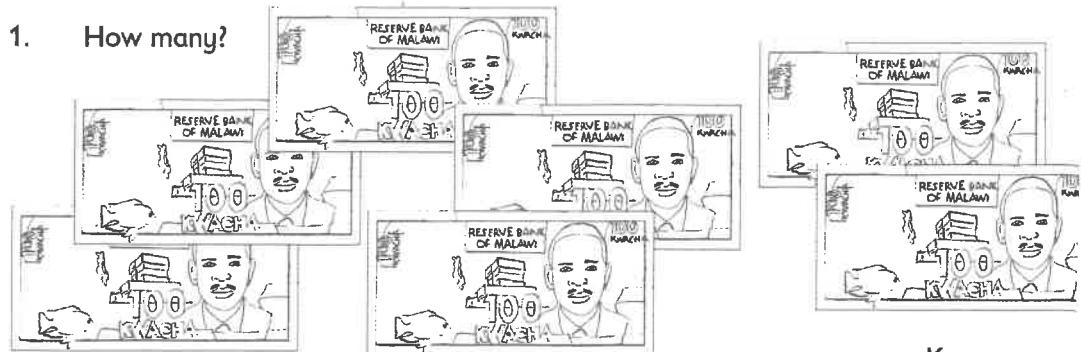
3. Mr Phiri harvested 153 bags of maize. Mr Banda harvested 268 bags of maize. How many bags of maize were harvested altogether?

4. Complete.

333 → 356 → −40 → ☐ → +12 → ☐ → +13 → ☐

+27 ↓

☐ ← −12 ← ☐ ← −25 ← ☐ ← −33 ← 389 ← ☐

373 → 395 → +15 → ☐ → +16 → ☐ → +32 → ☐

groups   combine   single-digit
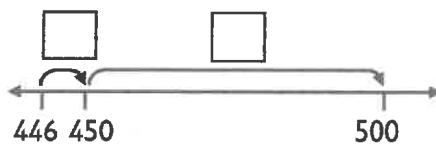
1. How many?

K _____
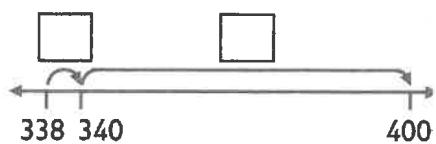
2. Chifundo has some money. She gives K84 to Mary. She has K416 left. How much money did she start with?
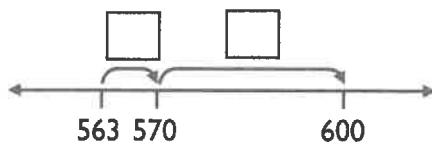
3. Complete.

446 + ☐ = 500
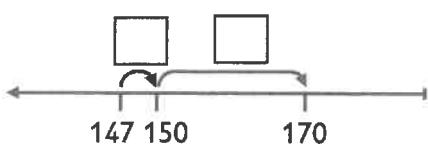
☐   ☐

446 450 ⟶ 500

338 + ☐ = 400

☐   ☐

338 340 ⟶ 400

563 + ☐ = 600

☐   ☐

563 570 ⟶ 600

147 + ☐ = 170

☐   ☐

147 150 ⟶ 170

4. Complete the addition bubble.

groups | change | completing 10s

32

1. How many?

150 kg 150 kg 150 kg 150 kg 150 kg 150 kg

_____ kg

2. Complete.

150   300   900
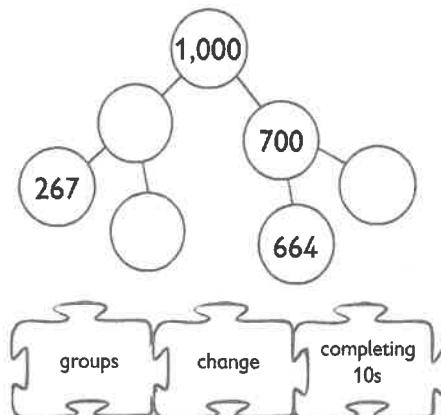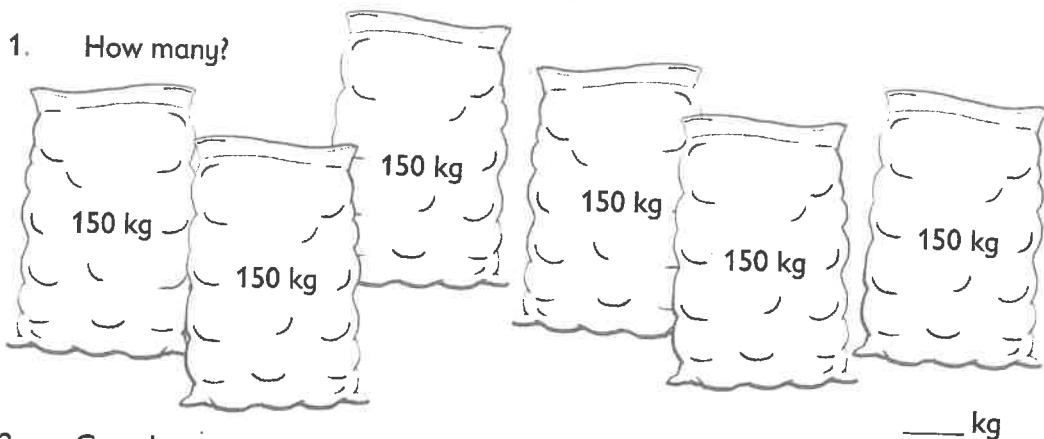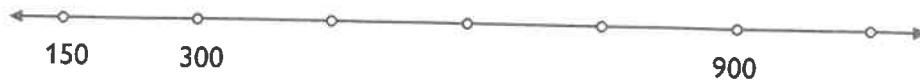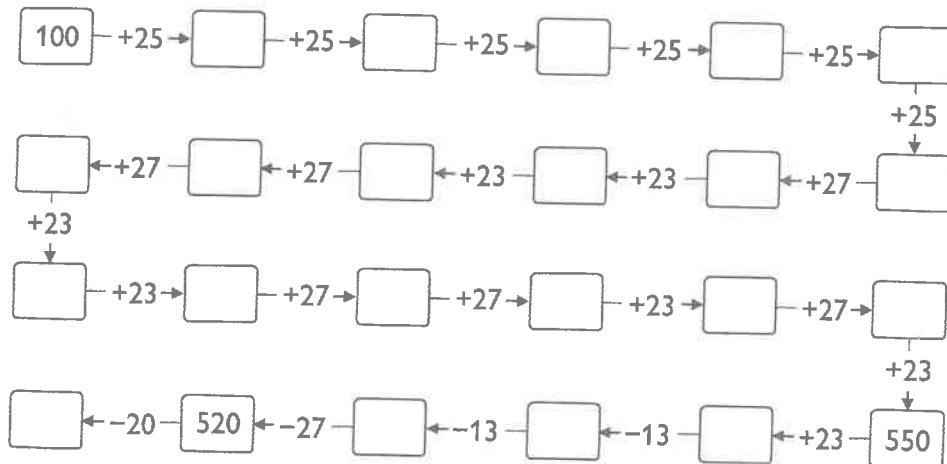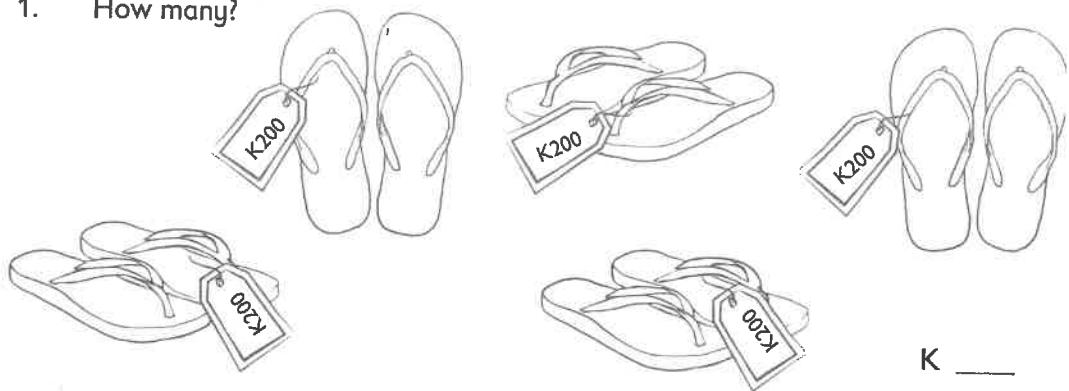
3. Mr Phiri has 270 kilograms of maize and Mr Banda has 347 kilograms of maize.
How many kilograms of maize do they have altogether?

4. Complete.

100 ⊢+25→☐ ⊢+25→☐ ⊢+25→☐ ⊢+25→☐ ⊢+25→☐
                                                                    +25↓
☐ ←+27⊣☐ ←+27⊣☐ ←+23⊣☐ ←+23⊣☐ ←+27⊣☐
+23↓
☐ ⊢+23→☐ ⊢+27→☐ ⊢+27→☐ ⊢+23→☐ ⊢+27→☐
                                                                    +23↓
☐ ←−20⊣520 ←−27⊣☐ ←−13⊣☐ ←−13⊣☐ ←+23⊣550

groups   combine   add/subtract to 10s
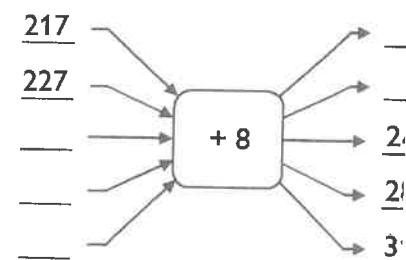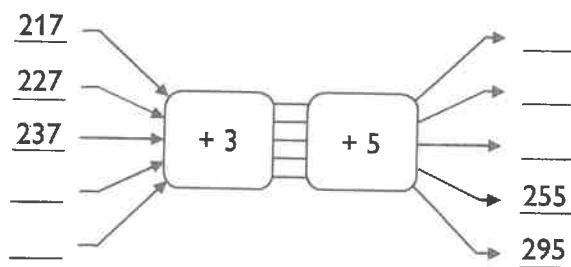
1. How many?
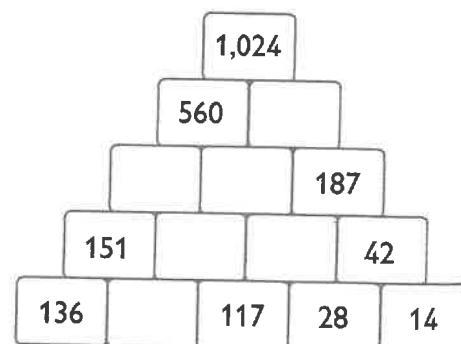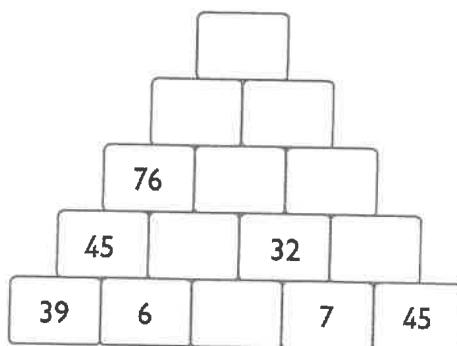
K _____

2. John has K367. Tadala has K58. How much more money does John have?

3. Complete.

217 →
227 →
237 → [+ 3] [+ 5] → ___
___ → → ___
___ → → 255
→ 295

217 →
227 →
___ → [+ 8] → 2_
___ → → 2_
→ 3_

4. Complete.

First pyramid:

```
          [   ]
       [   ][   ]
    [ 76 ][   ]
  [ 45 ][   ][ 32 ]
[ 39 ][ 6 ][   ][ 7 ][ 45 ]
```

Second pyramid:

```
          [ 1,024 ]
       [ 560 ][   ]
    [   ][   ][ 187 ]
  [ 151 ][   ][   ][ 42 ]
[ 136 ][   ][ 117 ][ 28 ][ 14 ]
```
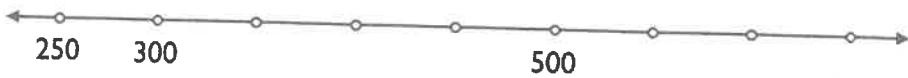
groups   compare   bridging 10s

1. Complete.

100   200   [ ]   [ ]   [ ]   [ ]   700   [ ]

[ ]   400   [ ]   800   1,000   [ ]

250   300   [ ]   [ ]   500   [ ]   [ ]   [ ]

[ ]   [ ]   [ ]   525   550   575   [ ]

2. Mwatitha has some soya beans. Her mother gives her 150 kilograms more soya beans. Now she has 450 kilograms of soya beans. How many kilograms of soya beans did she start with?
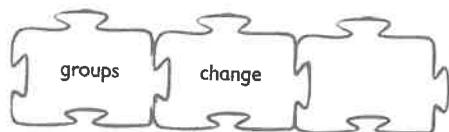
3. Complete.

464 + 16 = [ ]   243 + [ ] = 295

612 − 32 = [ ]   719 − [ ] = 692

groups   change

1. How many?

_____ hands
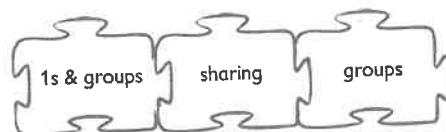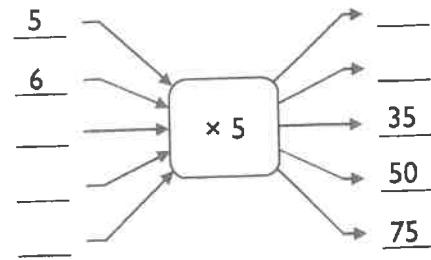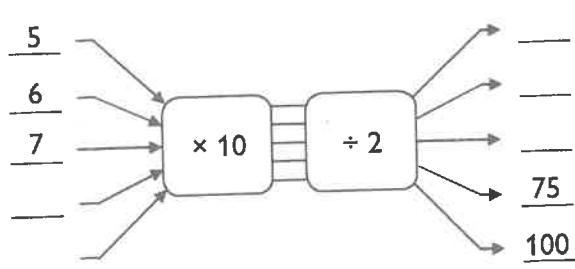
_____ fingers

2. Complete.

Hands	1	2	3	4			10			50
Fingers	5	10			25	40		75	125	
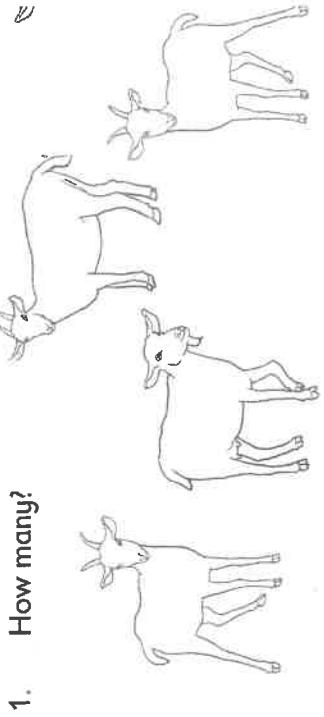
3. 5 children share 21 pens equally. How many pens will each child get?

4. Complete.

5
6
7
___

× 10 ÷ 2

___
___
___
75
100

5
6
___
___
___

× 5

___
35
50
75

1s & groups   sharing   groups

36

1
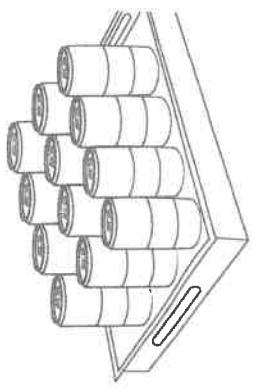
1. How many?
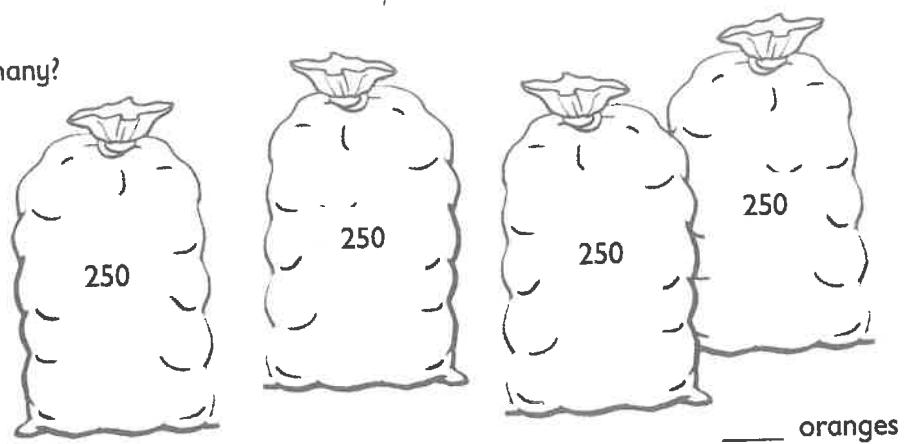
2. Complete.

Goats	10	20	30	40
Eyes	20	40		80
Legs	40		120	

3. Vitumbiko, Falida, Tamala and Tiwonge share 21 kar
   how to do it.

4. How many cans? _____

Large cans. There are 12 cans. I write it like thi

1. How many?

250 250 250 250

_____ oranges

2. Complete.

450 500   750
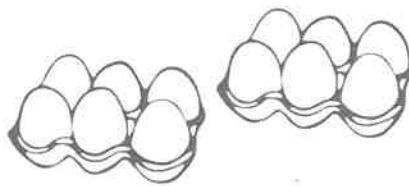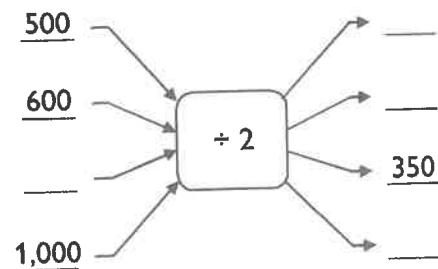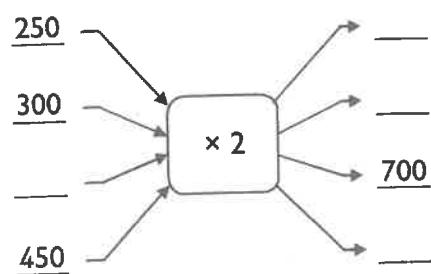
3. Tamara has 25 eggs. She packs 6 eggs in a tray. How many trays can she fill?

4. Complete.

250
300
___   × 2   ___
        ___
        700
450   ___

500
600
___   ÷ 2   ___
        ___
        350
1,000   ___

5. Complete.

50 × 2 = ___   100 ÷ 2 = ___

150 × 2 = ___   300 ÷ 2 = ___

___ × 2 = 500   ___ ÷ 2 = 250

groups   grouping   doubling & halving

38

1. Complete.

625   650   675   825

750   800   1,100 1,150   1,250
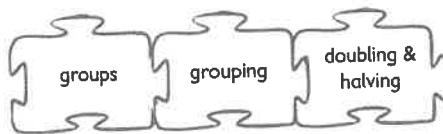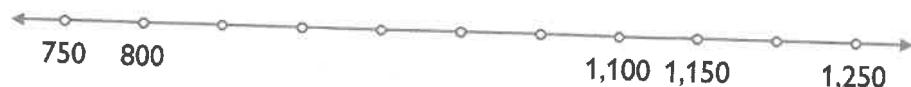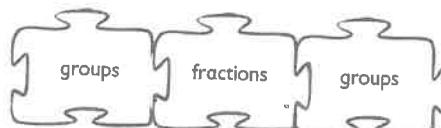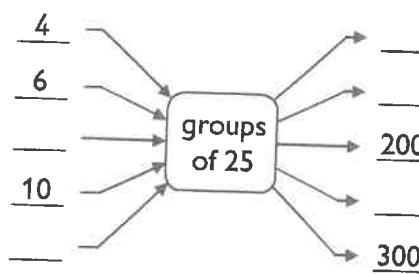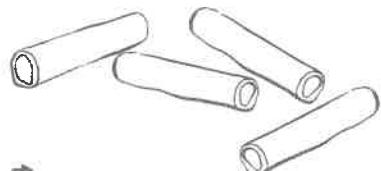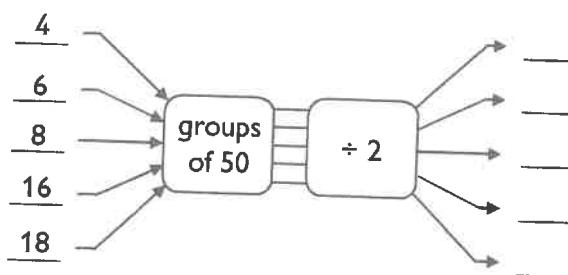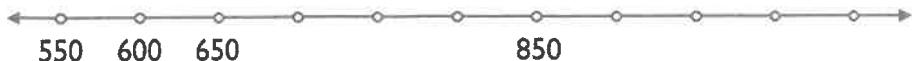
2. Madalo, Jane and Hilda share 25 kamba bars equally. Show them how to do it.

3. Vitumbiko, Gladys, Richard and Jacob share 25 kamba bars equally. Show them how to do it.

4. Complete.

4
6
8   groups
16   of 50   ÷ 2
18

4
6   groups
       of 25   200
10
                 300

groups   fractions   groups

1. Complete.

375   450   475

550   600   650   850
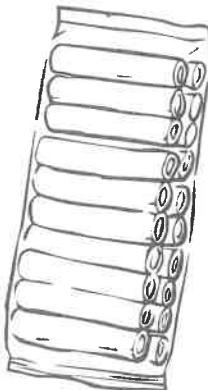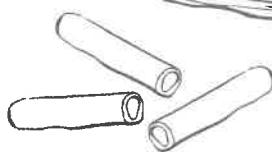
2. 5 children share 36 kamba bars equally. Show them how to do it.

3. 6 children share 37 kamba bars equally. Show them how to do it.
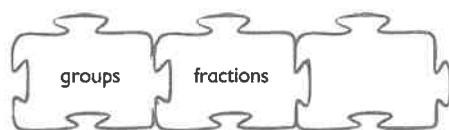
4. Complete.

12 groups of 50 = ☐   ☐ × 25 = 225

450 ÷ 5 = ☐   ☐ ÷ 5 = 100

groups   fractions
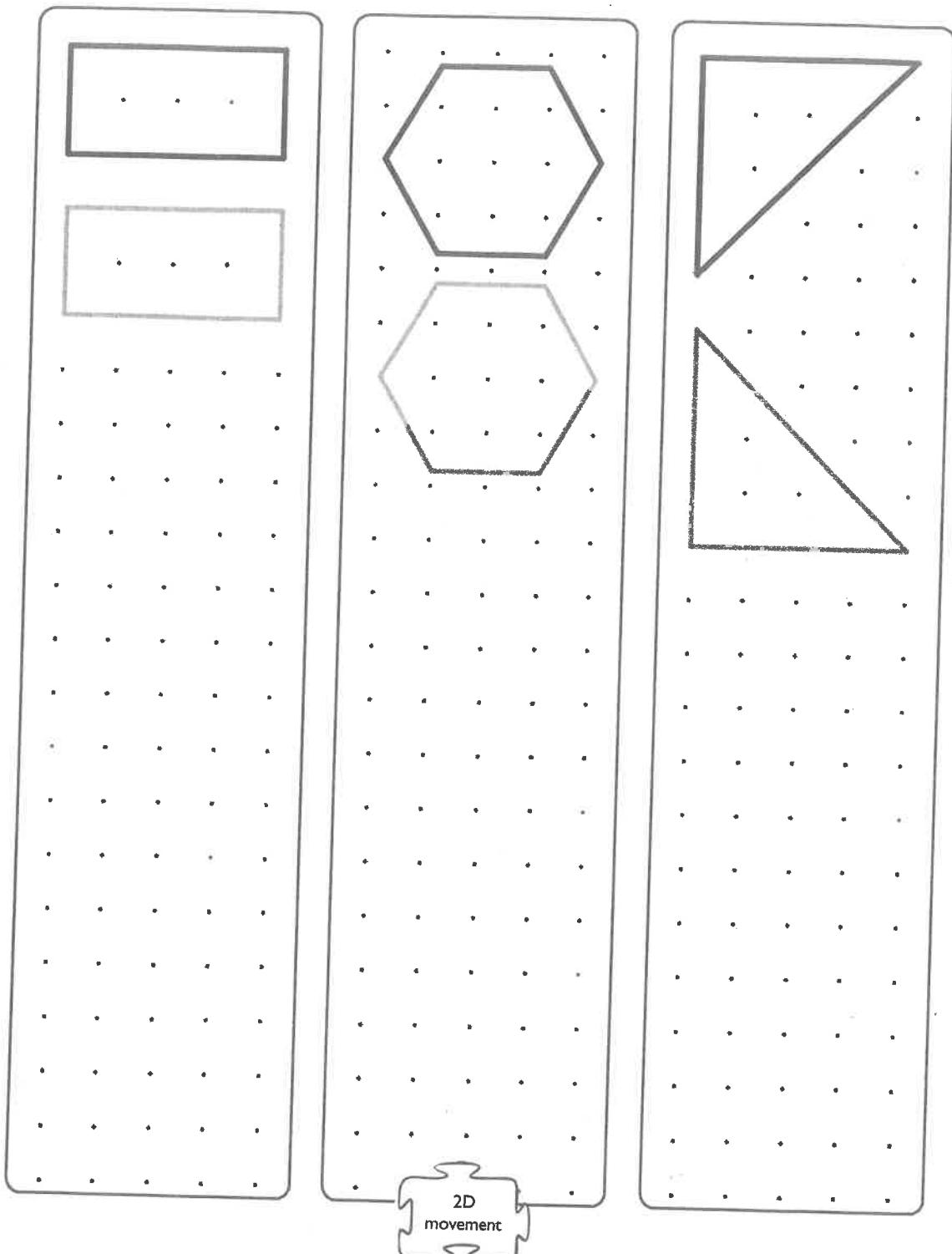
1. Use shape 8. Slide and trace to extend the pattern.

2. Use shape 4. Slide and trace to extend the pattern.

3. Use shape 13. Flip and trace to extend the pattern.

2D movement

Violet balanced a cassava with 200 bottle tops. Chimwembwe balanced the same cassava with 1 box of sand.

1. Violet balanced her bag with 400 bottle tops. How many boxes of sand will balance Violet's bag?

2. Chimwembwe balanced a small brick with three boxes of sand. How many bottle tops will balance the brick?

3. Use a balance scale to determine the weight of a bunch of bananas in terms of bottle tops and boxes of sand.

    Complete the table.

	Number of bottle tops	Number of boxes of sand
Bunch of bananas		

4. Use a balance scale to determine the weight of a pot using boxes of sand.

5. Use the weight of the bananas determined with boxes of sand to predict how many bottle tops will balance with the pot.

6. Using your balance scale and bottle tops, check your prediction about the weight of the pot.

indirect & non-standard   mass

Working with your teacher and friends, complete the tasks.

1. Draw a line to the word that answers the question.

| mandasi | counter | crate |

| woman | bird | motorbike |

What is **in front** of the sack?

Who is **behind** the counter?

What is **next to** the shop?

What is **in front** of the mandasi?

What is **between** the two women?

What is **on** the roof?

2. In the picture, find all the:
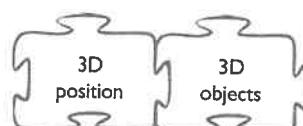

| circles | box-like objects | triangles | tube-like objects |

3D position   3D objects
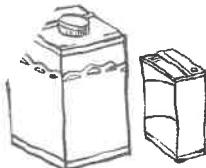
Violet balo   ʾnds. Use the pairs of containers that your teacher has
cassava v
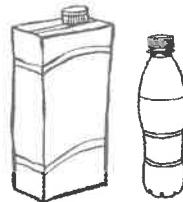
help you. For each pair of containers, fill the smaller
er or sand and pour the contents into the larger container.
.his until the large container is full.

record how many of the small containers you need to fill the large

.te.

The contents of _____ small containers filled
the large container.

The contents of _____ small containers filled
large container.
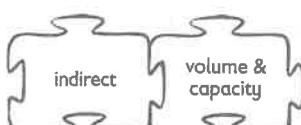
The contents of _____ small containers filled
the large container.
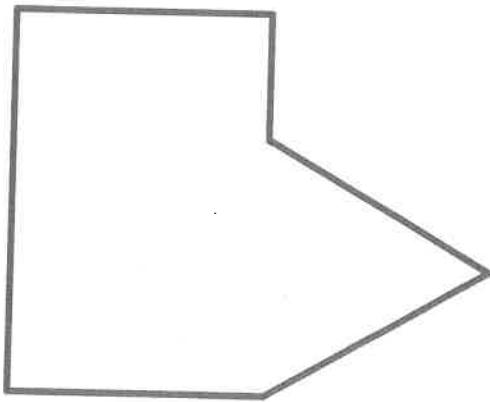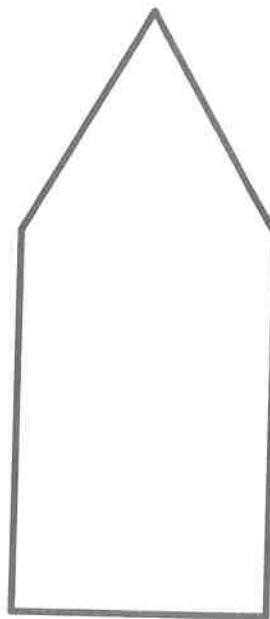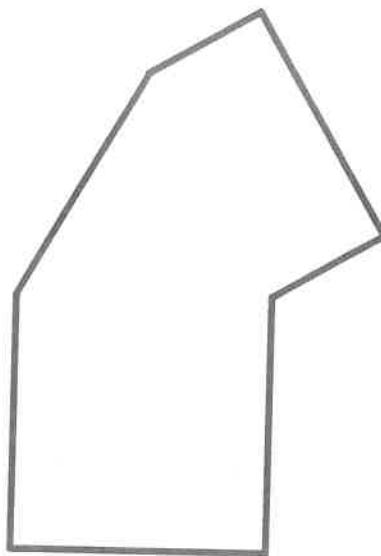
2.   Zione determined that she can
     fill the large jug with the contents
   of 3 small jugs.
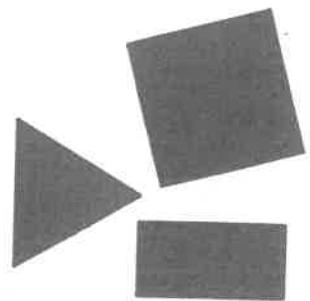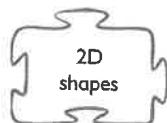
Chimzy disagrees with Zione. He says that he
cannot even fit two small jugs into the large jug.
Is Chimzy correct to disagree with Zione?
Explain.

indirect   volume &
   capacity
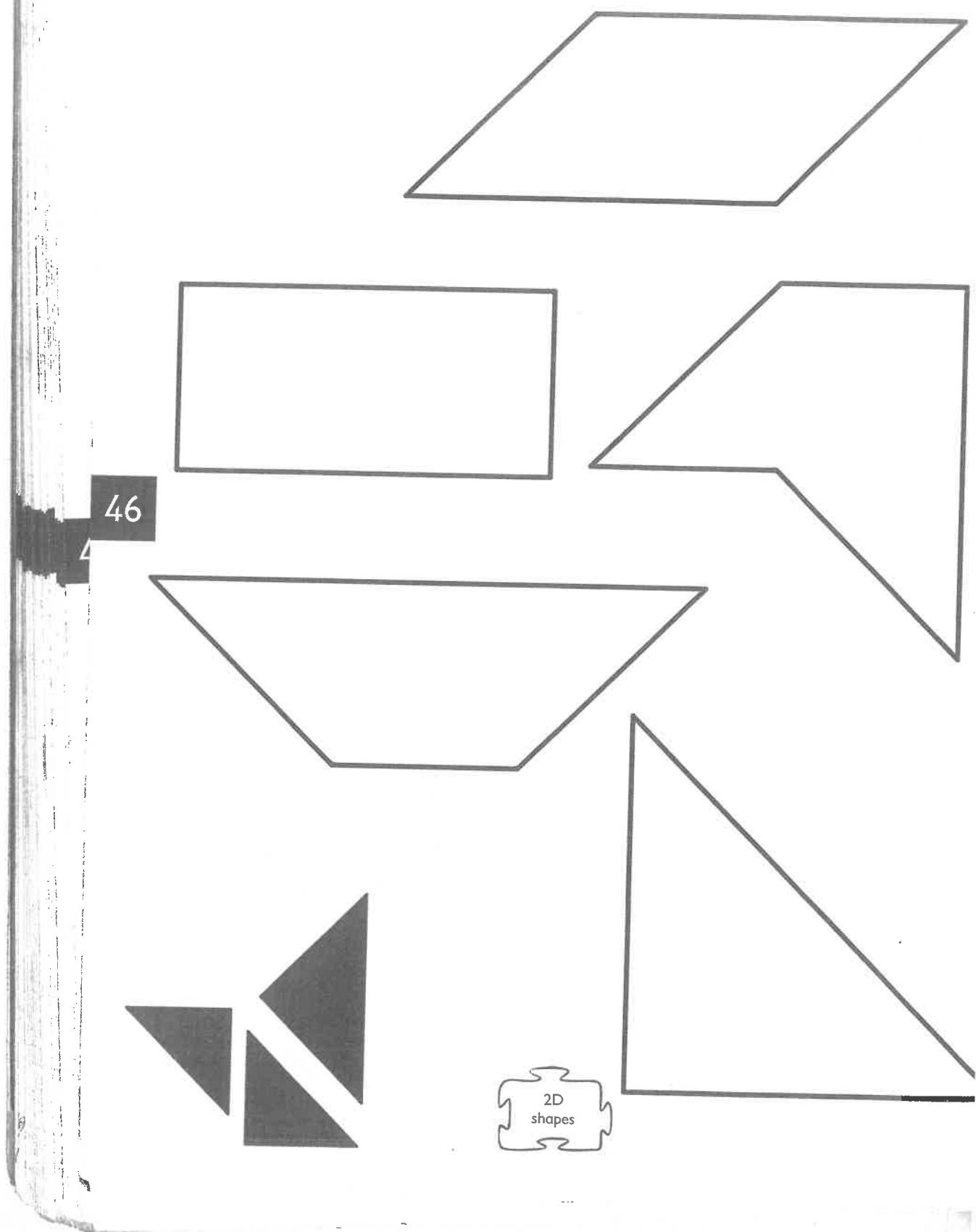
Use shapes 8, 10 and 22 to make the drawings. Trace the shapes and write the numbers of the shapes on the drawings.
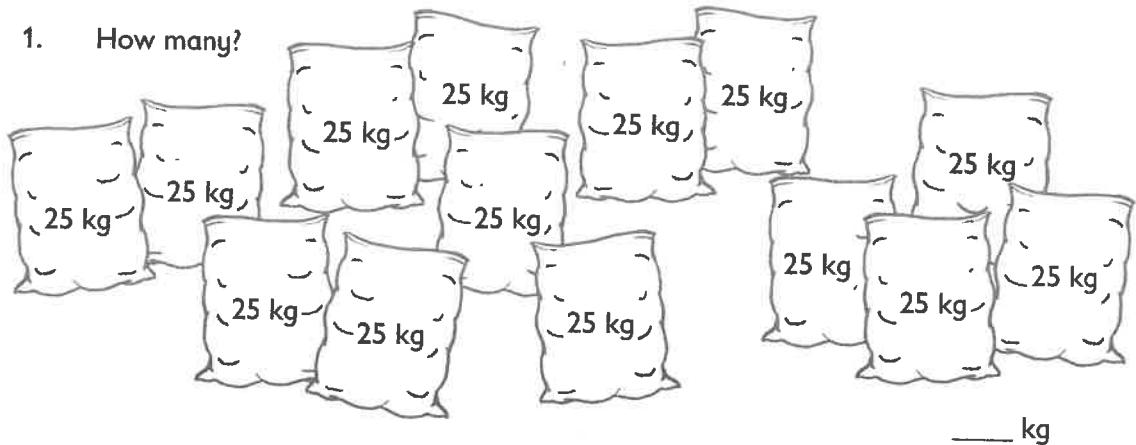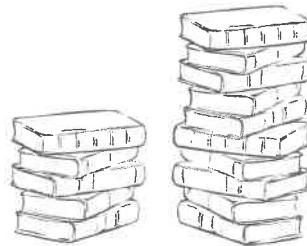
2D shapes

Use shapes 13, 14 and 16 to make the drawings. Trace the shapes and write the numbers of the shapes on the drawings.

2D
shapes

1. How many?

25 kg 25 kg 25 kg 25 kg 25 kg 25 kg 25 kg 25 kg 25 kg 25 kg 25 kg 25 kg 25 kg 25 kg 25 kg 25 kg

_____ kg
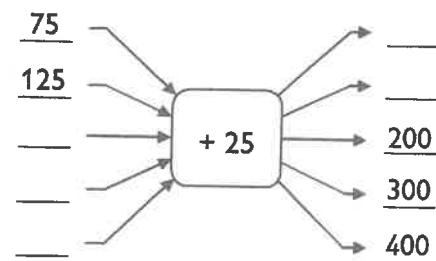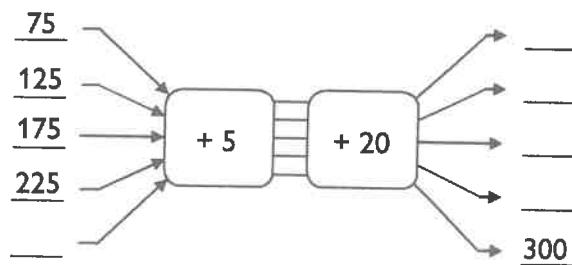
2. Tiphunzire Primary School received 225 books in the first term and 75 books in the second term. How many books did the school receive altogether?

3. Complete.

75			_____
125			_____
175	+ 5	+ 20	_____
225			_____
_____			300

75		_____
125		_____
_____	+ 25	200
_____		300
_____		400

4. Complete.

		100	
100	25	50	50

| | | | |
	100		
40	60		
		35	45
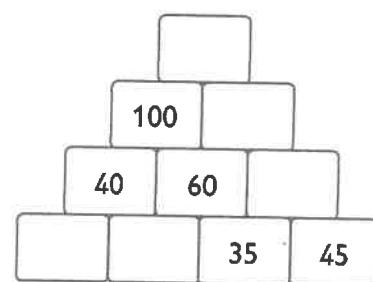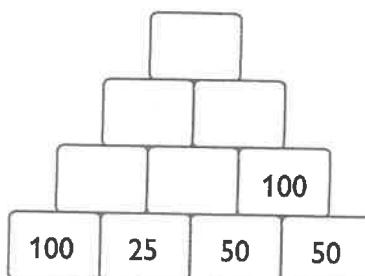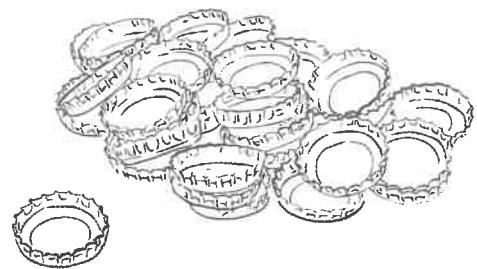
groups   change   completing 10s

1. Complete.

380 400 420
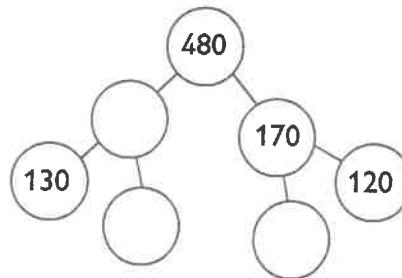
2. Yamikani collected 120 bottle tops. Chifuniro collected 90 bottle tops. How many more bottle tops has Yamikani collected?

3. Complete the addition bubble.


```
        480
    ◯         170
130    ◯     ◯    120
```

4. Complete.


```
              970
          540
       290
    150
 90    60
```

groups   compare   multiples of 10s