Nguzu Nguzu

Mathematics

Children's Resource Book

Standard 3

Reprinted in 2004 with assistance from the New Zealand Agency for International Development (NZAID).

Published in 1995 by the Curriculum Development Centre
P.O. Box G27, Honiara. Solomon Islands.

Copyright © Ministry of Education and Human Resources Development 1995.

All rights reserved. Any parts of the book may be copied, reproduced or adapted to meet the local needs, without permission from the authors, provided that parts reproduced are distributed free for educational purposes only. Written permission should be obtained from the Curriculum Development Centre, if the book is reproduced to make profit.

The production of this Book was funded by the Solomon Islands Government with assistance from the British Department For International Development and The World Bank.

Written and produced by
The Curriculum Development Centre

Acknowledgement

The Department of Education and Human Resources Development is grateful to all those whose work has led to the development of this publication.

Contents

		page
Unit 1, Number Topics 1 & 2:	**Numbers up to 999**	2
Unit 2, Shape Topic 16:	**Symmetry**	-
Unit 3, Number Topic 3:	**Numbers up to 9999**	8
Unit 4, Measurement Topics 20 & 21:	**Measuring and investigating perimeter**	12
Unit 5, Number Topics 4 & 5:	**Addition**	16
Unit 6, Number Topics 6 & 7:	**Subtraction**	20
Unit 7, Measurement Topic 22:	**Area of simple shapes**	30
Unit 8, Number Topic 8:	**Mental addition and subtraction**	34
Unit 9, Graphs Topic 18:	**Scales**	37
Unit 10, Number Topics 9 & 10:	**Multiplication**	40
Unit 11, Number Topics 11 & 12:	**Multiplication and division**	42
Unit 12, Measurement Topic 23:	**Area of irregular shapes**	44
Unit 13, Number Topic 13:	**Fractions**	45
Unit 14, Time Topic 25:	**Reading clocks**	47
Unit 15, Number Topic 14:	**Introducing fractional notation**	53
Unit 16, Money Topic 26:	**Computation of money**	54
Unit 17, Number Topic 15:	**Developing fractions**	57
Unit 18, Shape Topic 17:	**Right angles**	58
Unit 19, Measurement Topic 24:	**Weight and capacity**	59
Unit 20, Graphs Topic 19:	**Making graphs**	-

Four term arrangement of units and topics for Standard Three.

Term 1	Term 2	Term 3	Term 14
Unit 1 Number: topics 1 & 2	Unit 6 Number: topics 6 & 7	Unit 11 Number: topics 11 & 12	Unit 16 Money: topic 26
Unit 2 Shape: topic 16	Unit 7 Measurement: topic 22	Unit 12 Measurement: topic 23	Unit 17 Number: topic 15
Unit 3 Number: topic 3	Unit 8 Number: topic 8	Unit 13 Number: topic 13	Unit 18 Shape: topic 17
Unit 4 Measurement: topics 20 & 21	Unit 9 Graphs: topic 18	Unit 14 Time: topic 25	Unit 19 Measurement: topic 24
Unit 5 Number: topics 4 & 5	Unit 10 Number: topics 9 & 10	Unit 15 Number: topic 14	Unit 20 Graphs: topic 19

Unit 1. Number

Talk about the questions with your teacher before you start writing.
Write the answers in your exercise book.

Example.

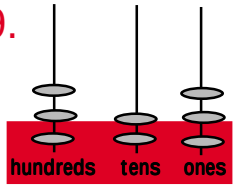
1. 352 — How many ones? — 1. 2 ones

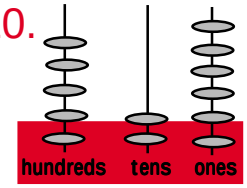
13. 150 — How many tens? — 13. 5 tens

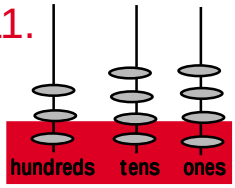
How many ones?

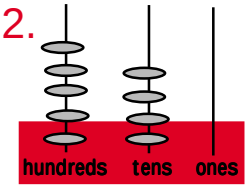
1. 352 2. 265 3. 406 4. 430

5. 573 6. 974 7. 820 8. 900

9.


10.


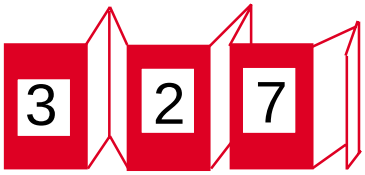
11.


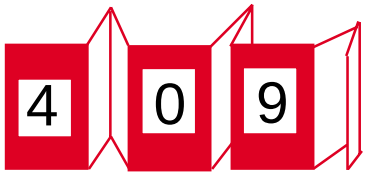
12.


How many tens?

13. 150 14. 247 15. 339 16. 496

17. 384 18. 208 19. 520 20. 673

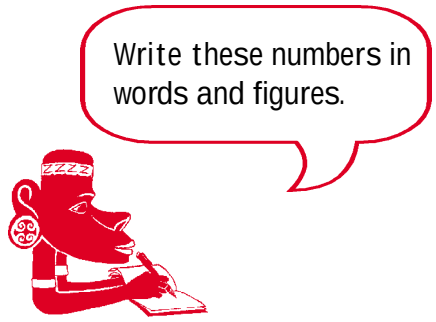
21.


22.


How many hundreds?

23. 370 24. 307 25. 524 26. 600

27. 793 28. 475 29. 942 30. 863



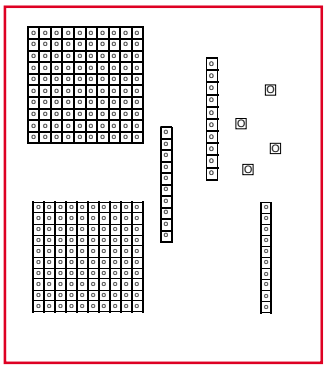
Example.

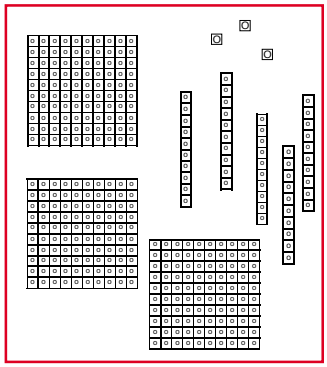
200 1. 200 = Two hundred

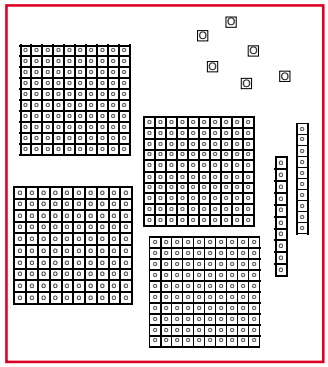
350 2. 350 = Three hundred and fifty

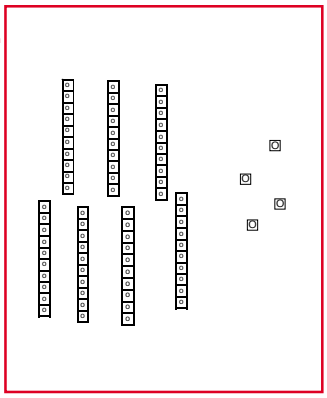
1. 200 2. 350 3. 700 4. 630

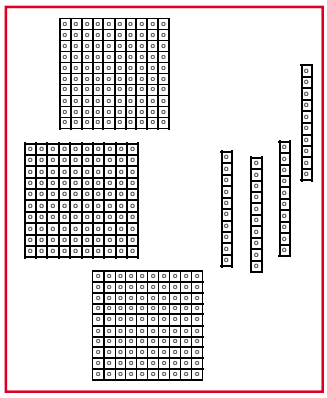
5. 314 6. 752 7. 408 8. 812

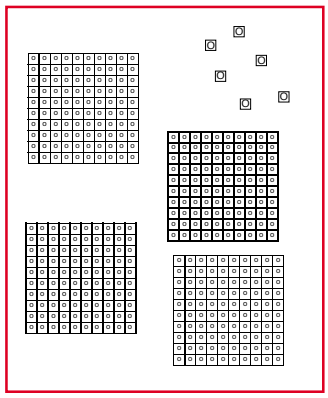
9.


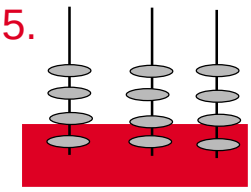
10.


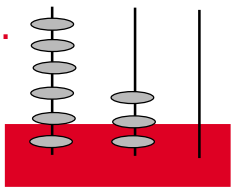
11.


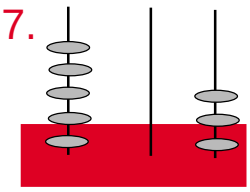
12.


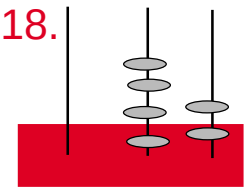
13.


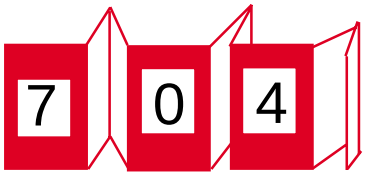
14.


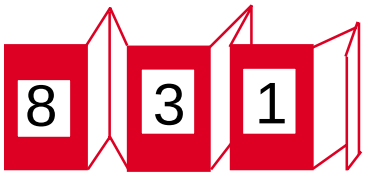
15.


16.


17.


18.


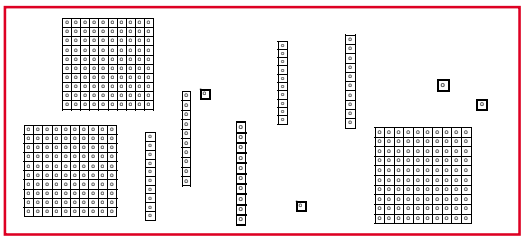
19.


20.


Unit 1. Number

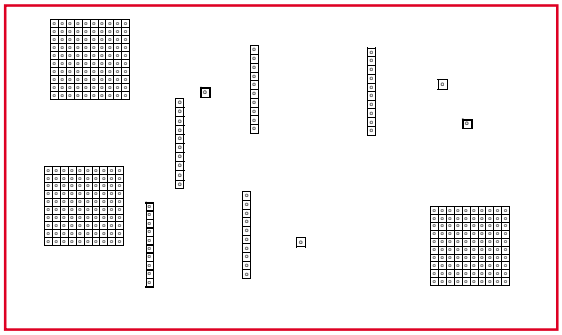
Count the blocks and write the totals in numbers and words.

Example. 1.

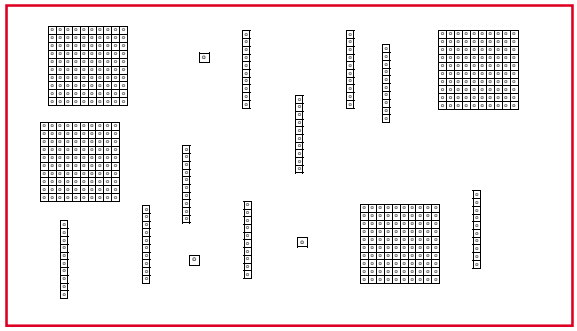


1. 354 = Three hundred and fifty four

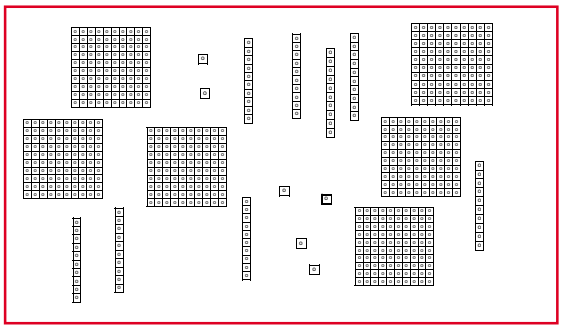
1.



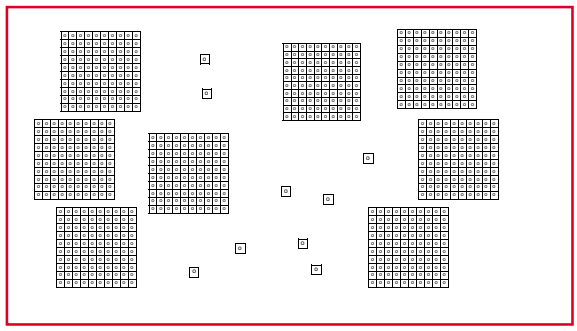
2.



3.

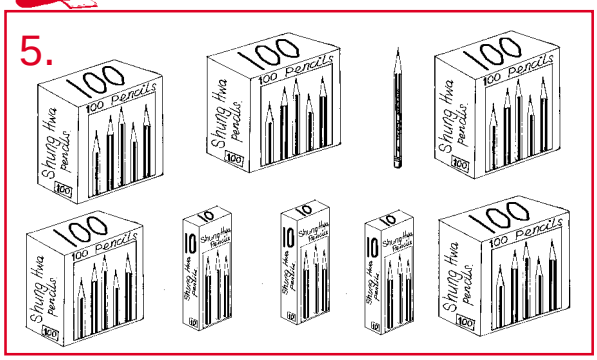


4.

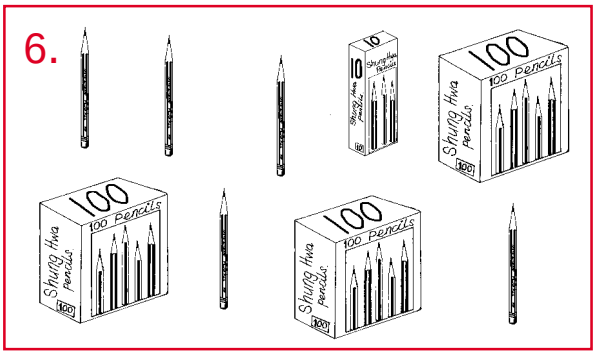


How many pencils?

5.

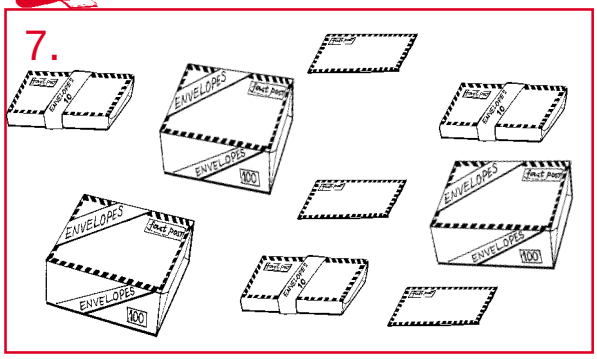


6.

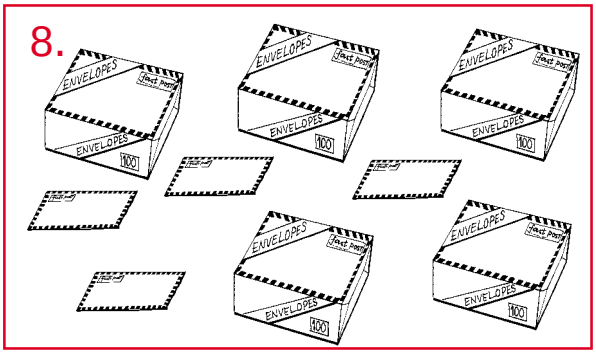


How many envelopes?

7.



8.



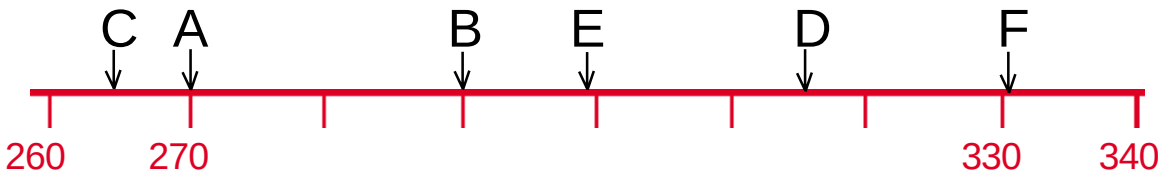
Copy these number patterns.
Fill in the missing numbers.

Example.

1. 120 130 140 150 160

1. 120 130 140 ☐ ☐ ☐ ☐ 190
2. 127 128 129 ☐ ☐ ☐ ☐ 134
3. 97 98 99 ☐ ☐ ☐ ☐ 104
4. 295 296 297 ☐ ☐ ☐ ☐ 302

Write the number shown by each letter on the number line below.
Then write each number in order, smallest first.



5. A = ☐ 6. B = ☐ 7. C = ☐

8. D = ☐ 9. E = ☐ 10. F = ☐

Copy the number line below. Mark on these numbers.

11. 500 12. 490 13. 530 14. 520

15. 499 16. 501 17. 510 18. 531

Unit 1. Number

Talk about the activities with your teacher before you start. Write the answers in your exercise book.

Example.

1. 124 412 214 142 421

1. Four hundred and twenty one

Find the biggest number in each box. Write it in words.

1. 124 412 214 142 421

2. 235 325 253 532 352

3. 394 934 943 349 439

Find the smallest number in each box. Write it in words.

4. 726 267 627 276 762

5. 489 849 984 498 948

6. 572 725 257 275 527

Write these numbers in order, smallest first.

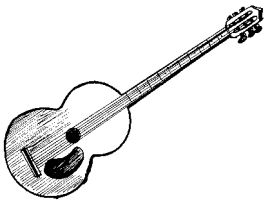
7. 541 415 145 514

8. 243 423 324 234

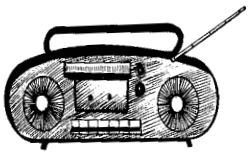
9. 153 135 315 351

10. 465 456 465 546

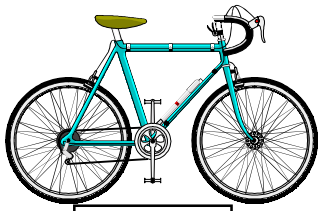
What costs most? What costs least?



$ 235



$ 352



$ 532

$ 253

Talk about the activities with your teacher before you start. Write the answers in your exercise book.

Example. 1. 517

1. 527
Five hundred and twenty seven.

What number is ten more? Write it in figures and words.

1. 517	2. 423	3. 748	4. 486
5. 493	6. 602	7. 591	8. 709

What number is ten less? Write it in figures and words.

9. 327	10. 451	11. 964	12. 293
13. 200	14. 205	15. 309	16. 419

What number is one hundred more? Write it in figures and words.

17. 517	18. 423	19. 748	20. 486
21. 493	22. 602	23. 591	24. 709

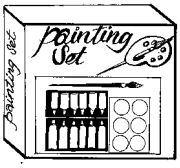
What number is one hundred less? Write it in figures and words.

25. 249	26. 329	27. 637	28. 394
29. 501	30. 223	31. 419	32. 128

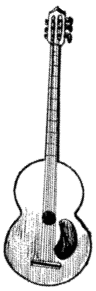
Draw each thing and write the new price.

SALE
$10 OFF

$110

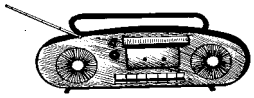


$119


$209

SALE
$100 OFF

$650


$300

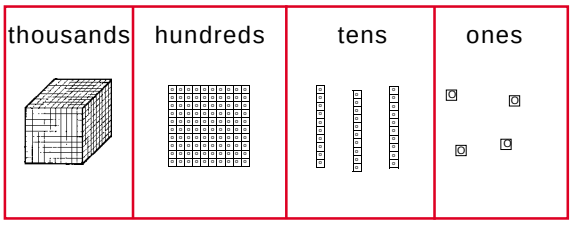
$220

Unit 3. Number

Talk about the questions with your teacher before you start writing.
Write the answers in your exercise book.

Example.

1.

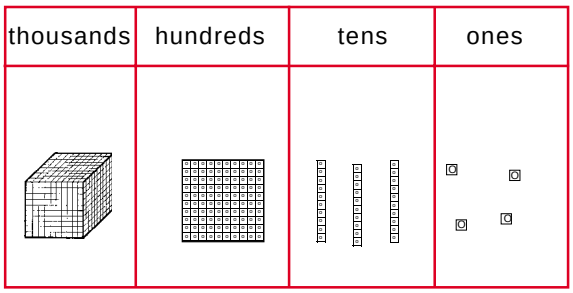


1,134

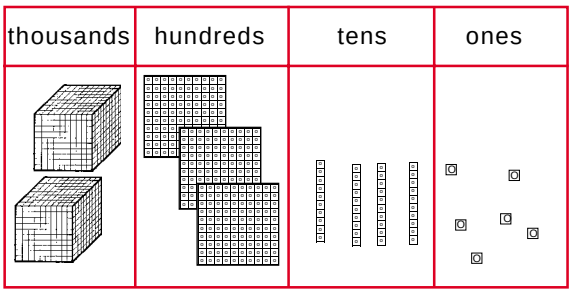
One thousand, one hundred and thirty four

Write the number shown on each place value chart.

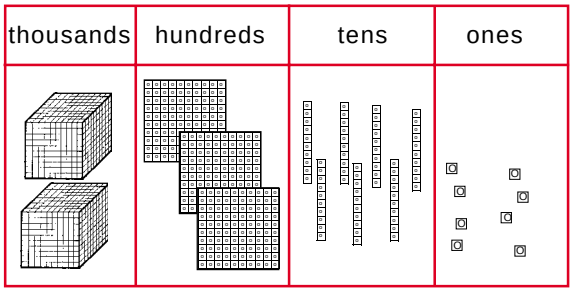
1.



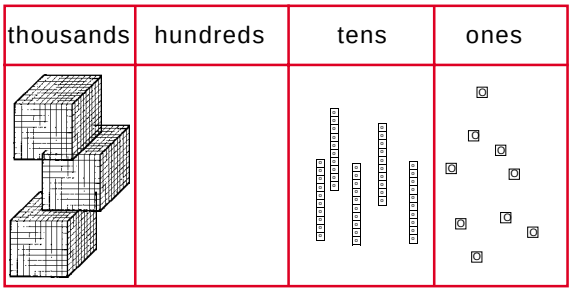
2.



3.

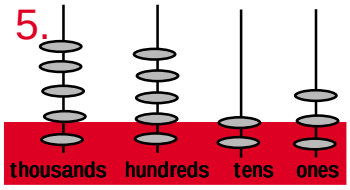


4.

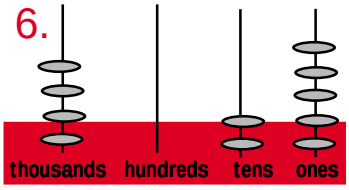


Write the number shown on each abacus.

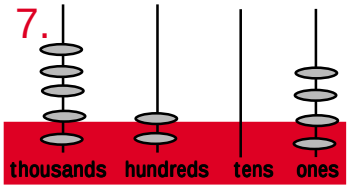
5.



6.

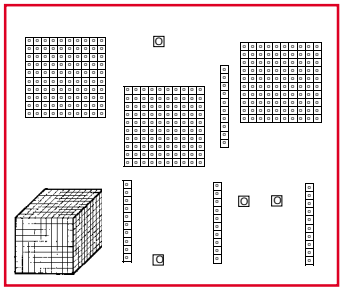


7.

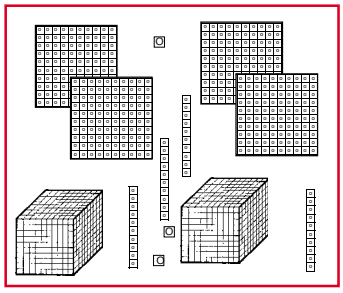


Write the number shown in each box.

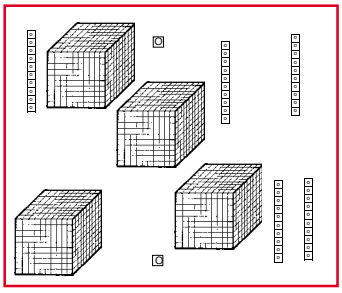
8.



9.

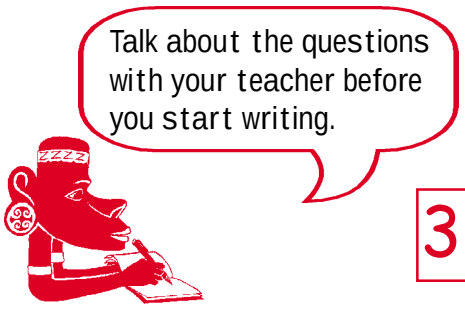


10.



Write the number which comes after these numbers.

11. 1492 12. 6000 13. 5203 14. 2019 15. 3599



Example.

1. 3214 =

3000 + 200 + 10 + 4

Copy the Number Maker cards. Fill in the missing numbers.

1.	3214	=		+	200	+	10	+	4
2.	2356	=	2000	+	300	+		+	6
3.	5429	=		+		+	20	+	9
4.	3065	=	3000	+		+	60	+	
5.	6401	=		+	400	+		+	1
6.	7008	=		+		+		+	8

Write the numbers shown in the boxes.

7. 3000 100 20 5

8. 6 4000 30 700

9. 50 1 300 5000

10. 40 9 8000 500

11. 3000 300 60 6

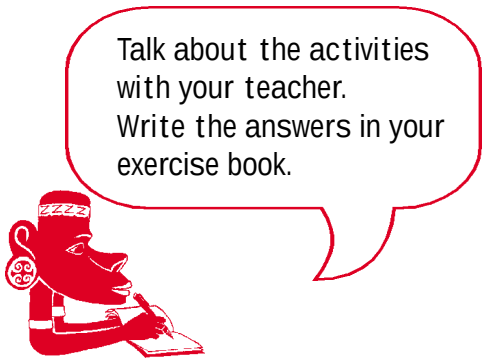
12. 60 4000 200

13. 6000 10 500

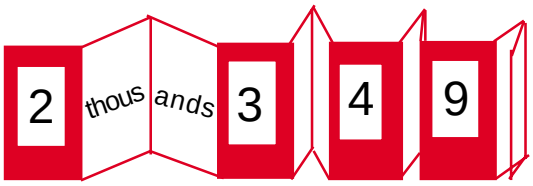
14. 50 9 1000

15. 4000 8

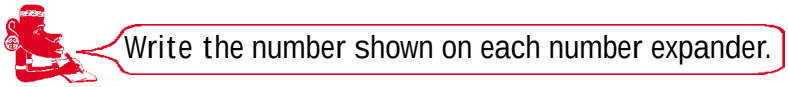
Unit 3. Number



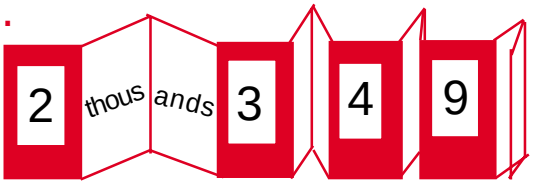
Example.



1. 2,349
Two thousand three hundred and forty nine

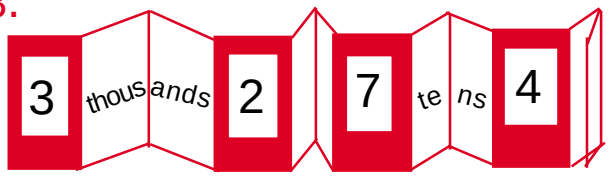

Write the number shown on each number expander.

1.

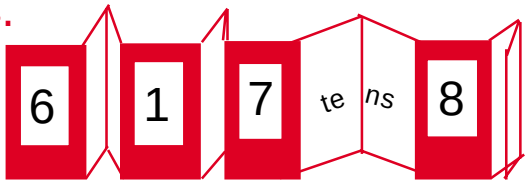


2.

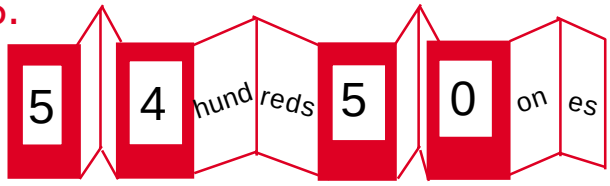
3.



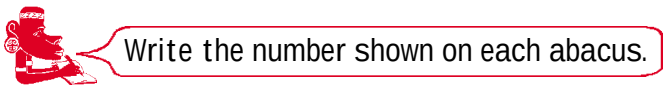
4.



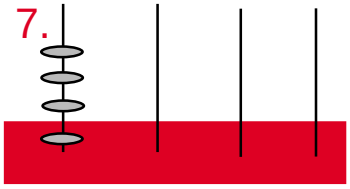
5.



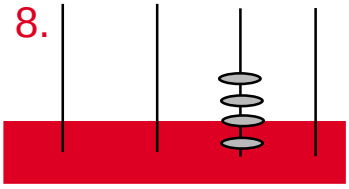
6.


Write the number shown on each abacus.

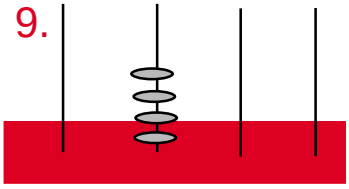
7.

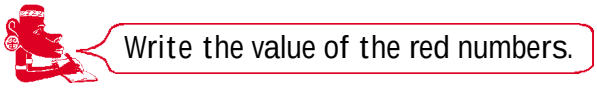


8.



9.




Write the value of the red numbers.

10. 1352

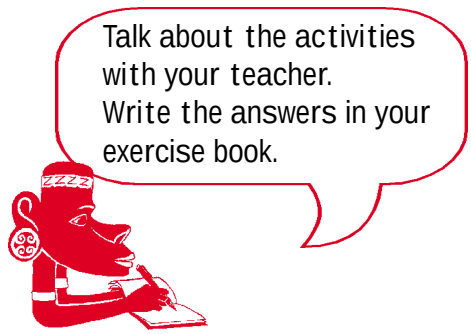
11. 2137

12. 3542

13. 4301

14. 2980

15. 5027



Example.

1. 3000 2679 3100 2576

1. 2576 2679 3000 3100

Write these numbers in order, smallest first.

1. 3000 2679 3100 2576

2. 1327 2327 3560 3569

3. 5000 5001 1550 1500

4. 2651 2561 2650 2649

5. 1998 1999 2001 2000

6. 6029 6030 6040 6400

Write the next three numbers.

7. 1358 1359 1360 ☐ ☐ ☐

8. 2645 2646 2647 ☐ ☐ ☐

9. 2997 2998 2999 ☐ ☐ ☐

10. 3876 3877 3878 ☐ ☐ ☐

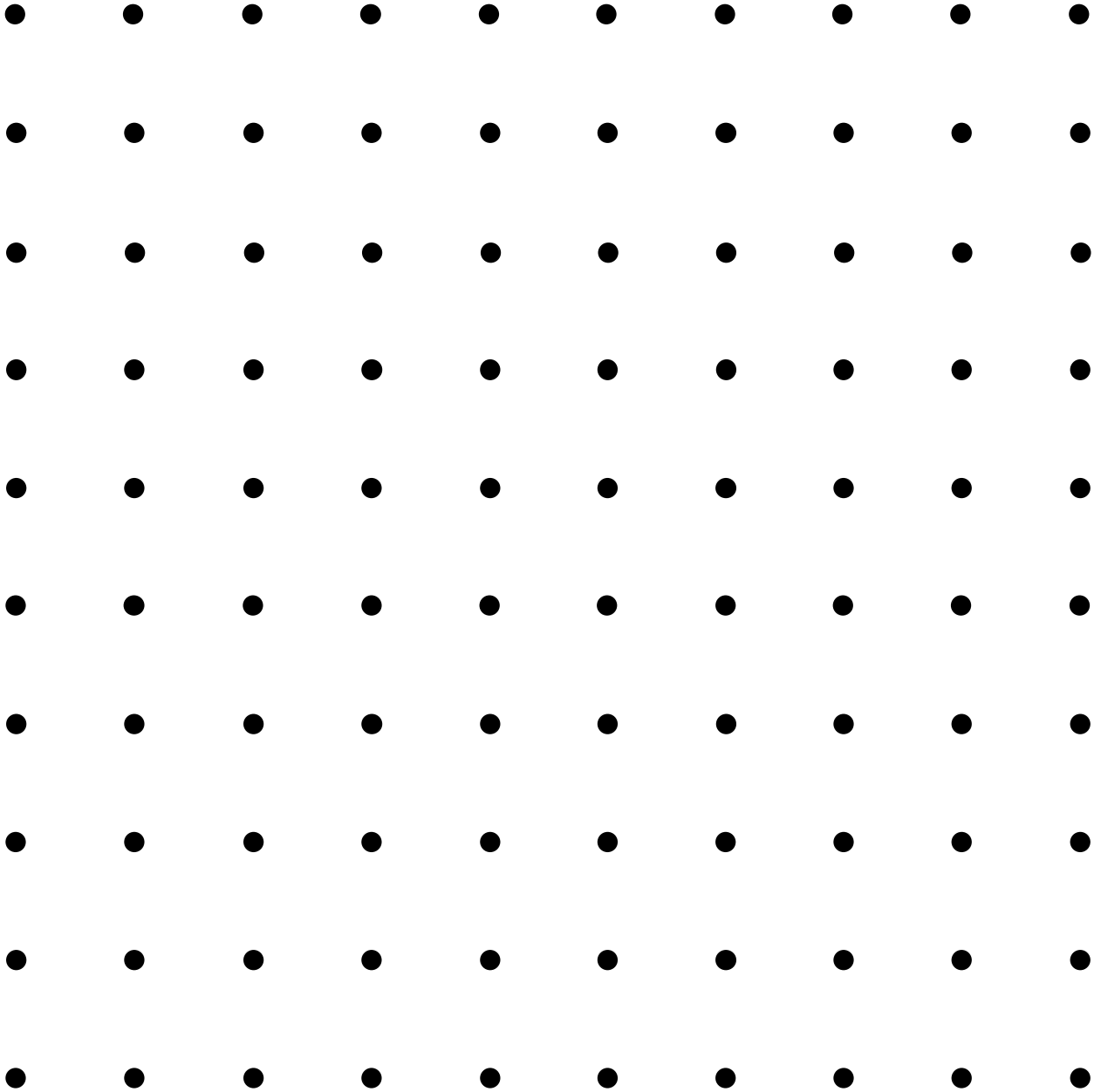
Write the missing numbers.

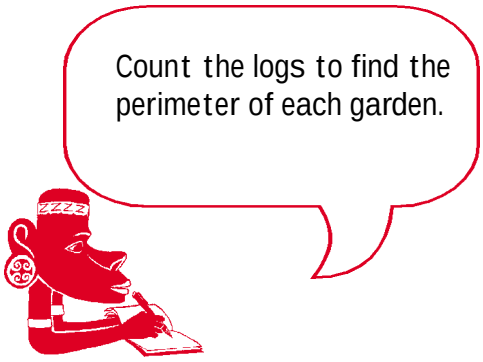
11. 2527 → 10 more → ☐

12. 4059 → 100 more → ☐

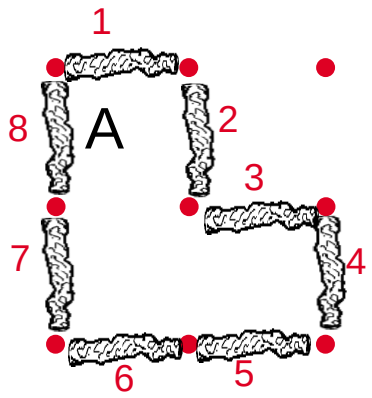
13. 3099 → 1000 more → ☐

14. 4950 → 100 more → ☐

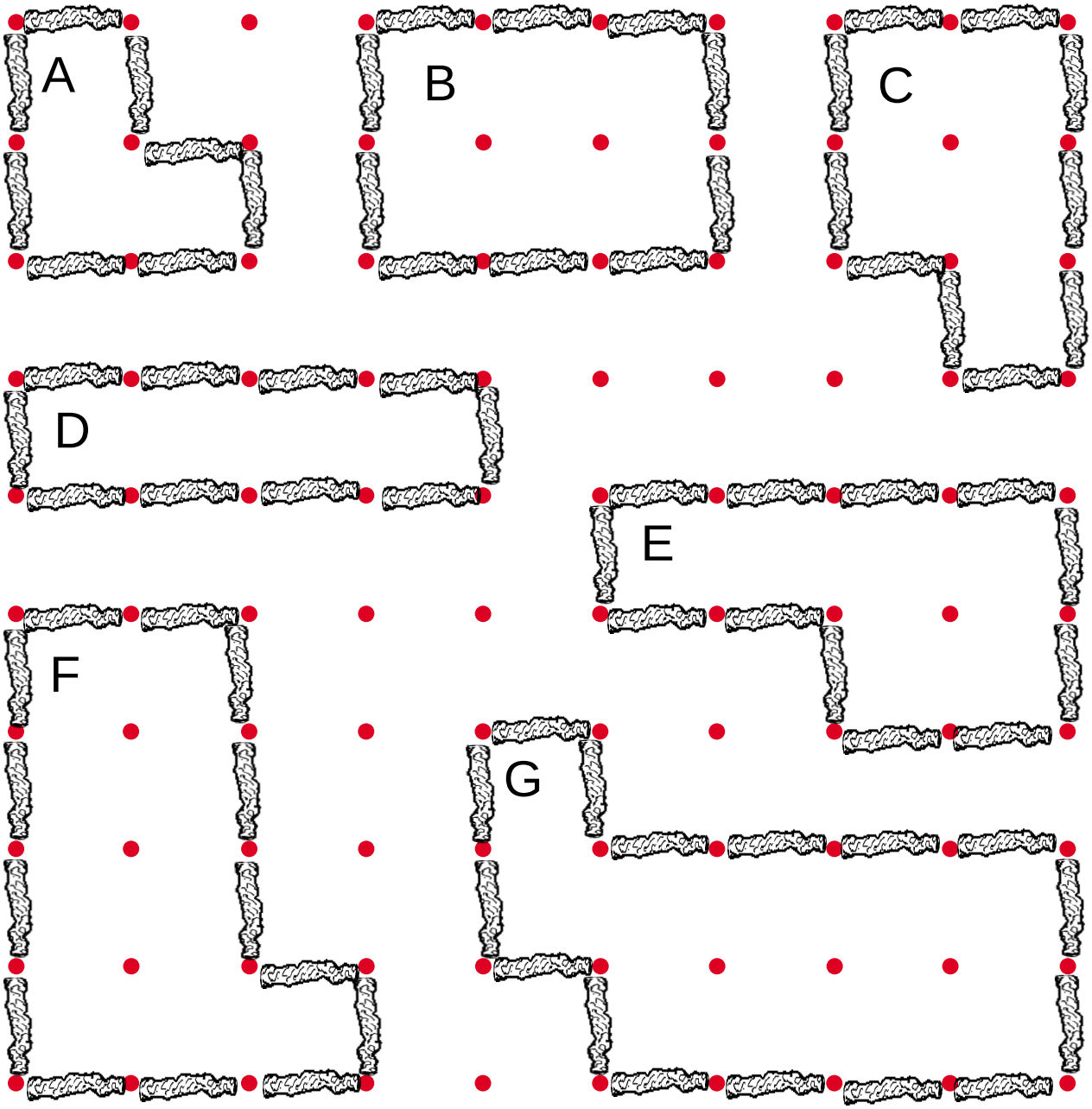




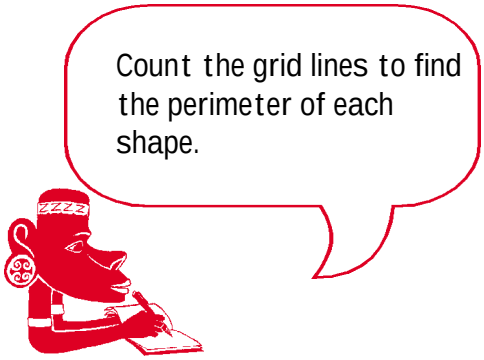
Example.



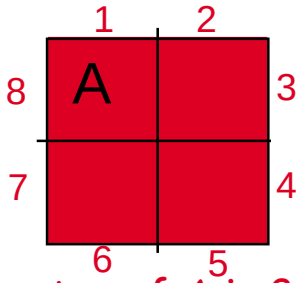
The perimeter of A is 8.



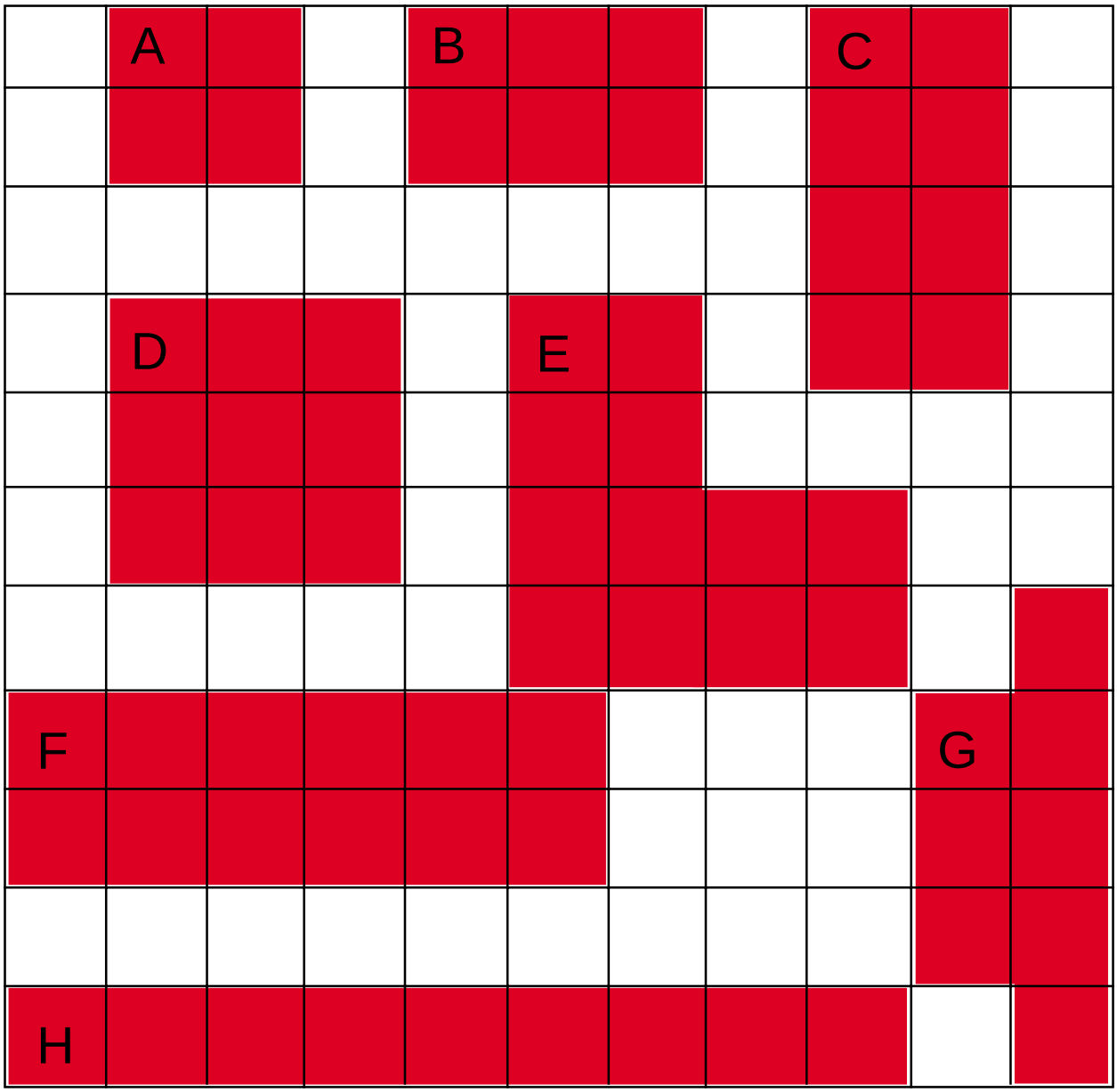
Unit 4. Measurement



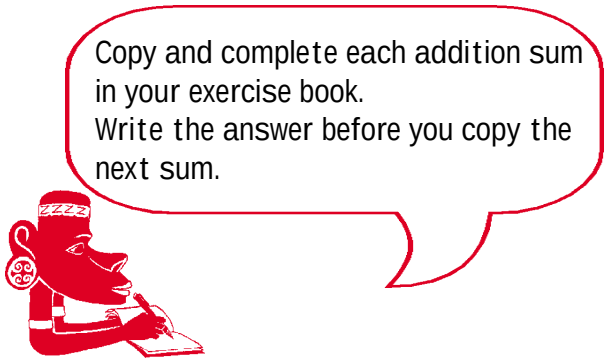
Example.



The perimeter of A is 8.



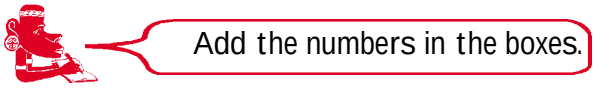
Unit 5. Number



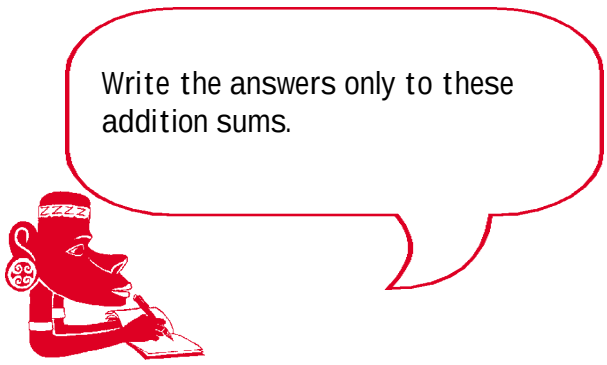
Example.

1. 3
+ 1 2
1 5

1. 3 +1 2 ___
2. 4 +1 3 ___
3. 6 +1 0 ___
4. 7 +1 1 ___
5. 5 +1 4 ___
6. 8 +1 7 ___
7. 7 +1 4 ___
8. 9 +1 5 ___
9. 7 +1 6 ___
10. 4 +1 8 ___
11. 9 +2 5 ___
12. 5 +2 7 ___
13. 8 +2 3 ___
14. 4 +2 8 ___
15. 7 +2 6 ___
16. 7 +4 5 ___
17. 3 +3 8 ___
18. 6 +5 4 ___
19. 8 +3 7 ___
20. 9 +4 9 ___
21. 9 +6 4 ___
22. 6 +8 8 ___
23. 7 +7 0 ___
24. 5 +6 6 ___
25. 4 +9 0 ___
26. 7 +7 7 ___
27. 9 +4 6 ___
28. 4 +6 9 ___
29. 7 +9 8 ___
30. 5 +8 7 ___

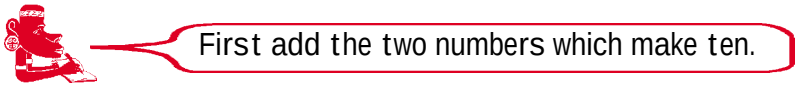


21. 56 7
21. 43 9
21. 8 64
21. 6 75
21. 95 8
21. 87 9



Example.

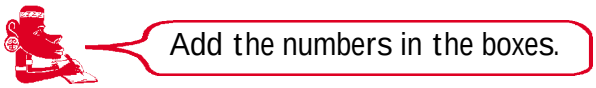
1.
$$\begin{array}{r} 3 \\ 2 \\ +\ 7 \\ \hline 12 \end{array}$$



1. $\begin{array}{r} 3 \\ 2 \\ +\ 7 \\ \hline \end{array}$ 2. $\begin{array}{r} 4 \\ 3 \\ +\ 6 \\ \hline \end{array}$ 3. $\begin{array}{r} 5 \\ 5 \\ +\ 3 \\ \hline \end{array}$ 4. $\begin{array}{r} 2 \\ 8 \\ +\ 4 \\ \hline \end{array}$ 5. $\begin{array}{r} 6 \\ 7 \\ +\ 3 \\ \hline \end{array}$ 6. $\begin{array}{r} 5 \\ 9 \\ +\ 5 \\ \hline \end{array}$

7. $\begin{array}{r} 0 \\ 6 \\ +\ 10 \\ \hline \end{array}$ 8. $\begin{array}{r} 2 \\ 5 \\ +\ 9 \\ \hline \end{array}$ 9. $\begin{array}{r} 6 \\ 8 \\ +\ 2 \\ \hline \end{array}$ 10. $\begin{array}{r} 8 \\ 6 \\ +\ 4 \\ \hline \end{array}$ 11. $\begin{array}{r} 5 \\ 8 \\ +\ 5 \\ \hline \end{array}$ 12. $\begin{array}{r} 7 \\ 5 \\ +\ 3 \\ \hline \end{array}$

13. $\begin{array}{r} 2 \\ 9 \\ +\ 8 \\ \hline \end{array}$ 14. $\begin{array}{r} 9 \\ 9 \\ +\ 1 \\ \hline \end{array}$ 15. $\begin{array}{r} 5 \\ 5 \\ +\ 2 \\ \hline \end{array}$ 16. $\begin{array}{r} 3 \\ 8 \\ +\ 7 \\ \hline \end{array}$ 17. $\begin{array}{r} 6 \\ 9 \\ +\ 4 \\ \hline \end{array}$ 18. $\begin{array}{r} 0 \\ 10 \\ +\ 7 \\ \hline \end{array}$



19. 4 7 3

20. 6 4 9

21. 5 8 5

22. 5 0 10

23. 8 2 4

24. 9 5 1

25. 8 2 4

26. 3 8 7

Unit 5. Number

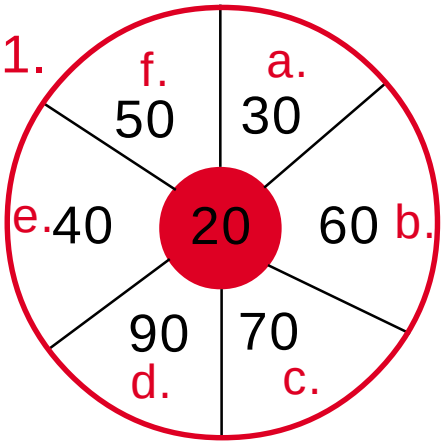
Write the answers only in your exercise book.

Example.

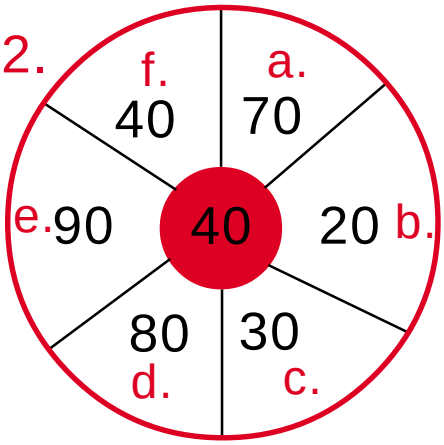
1. a. 50 (think of 3 tens add 2 tens = 5 tens)
   b. 80 (think of 2 + 6 = 8, so 20 + 60 = 80)

Add the number in the red circle to each number in the big circle.

1.



2.



Add the numbers which make 100 first. Write the answers only.

1. 30	2. 10	3. 20	4. 50	5. 70	6. 20
40	30	80	70	60	70
+ 70	+ 90	+ 50	+ 50	+ 40	+ 80
___	___	___	___	___	___
7. 60	8. 20	9. 90	10. 40	11. 80	12. 10
70	50	80	90	60	50
+ 30	+ 50	+ 10	+ 60	+ 20	+ 90
___	___	___	___	___	___
13. 60	14. 50	15. 30	16. 80	17. 90	18. 70
40	50	70	20	10	30
+ 50	+ 80	+ 50	+ 90	+ 50	+ 40
___	___	___	___	___	___

Write the answers only in your exercise book.

Example.

1. 700

1. 300
+ 400

Write the answers only.

1. 300
+ 400

2. 200
+ 500

3. 400
+ 500

4. 100
+ 200

5. 700
+ 200

6. 800
+ 100

7. 600
+ 400

8. 700
+ 600

9. 400
+ 800

10. 500
+ 700

11. 900
+ 400

12. 700
+ 800

13. 500
+ 900

14. 300
+ 700

15. 600
+ 800

16. 900
+ 300

17. 400
+ 700

18. 800
+ 500

Add the two numbers which make 1000 first.

19. 500
200
+ 500

20. 700
300
+ 300

21. 200
500
+ 800

22. 400
700
+ 600

23. 300
900
+ 700

24. 900
400
+ 100

Write the answers only.

13. 5000
+ 9000

14. 3000
+ 7000

15. 6000
+ 8000

16. 9000
+ 3000

17. 4000
+ 7000

Unit 6. Number

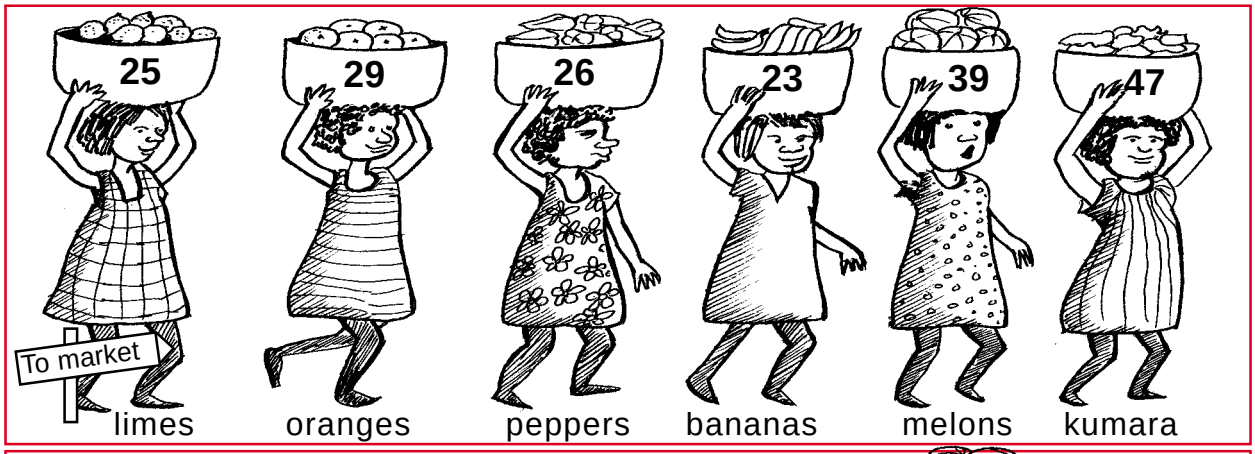
Talk about the activities with your teacher before you start. Write the answers in your exercise book.

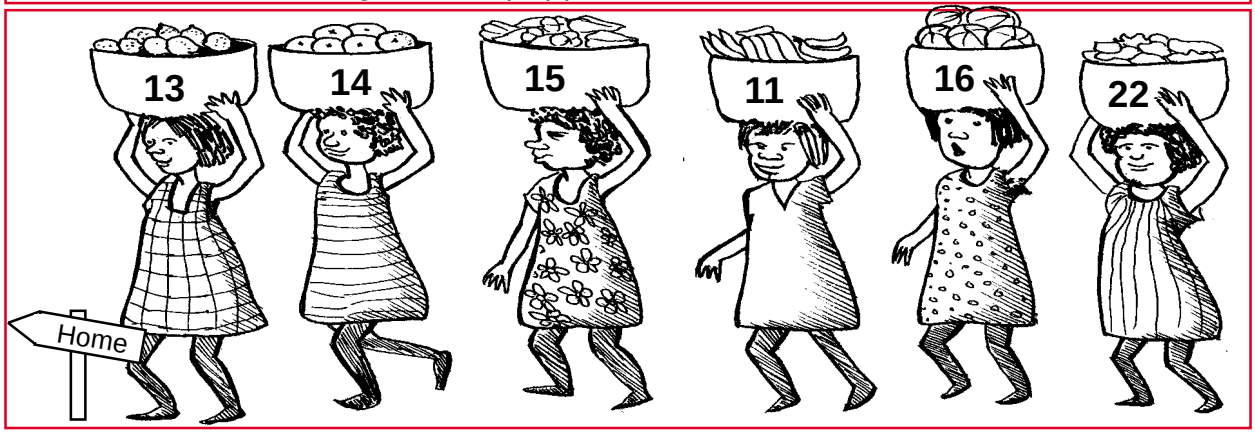
Example. 1. 25 limes in the basket going to market.
13 limes in the basket coming back.
How many were sold at the market?

$$\begin{array}{r} 25 \\ -13 \\ \hline 12 \end{array}$$

12 limes were sold

How many of each fruit went to market? How many came back?
How many were sold at the market?
Write each subtraction sum in your exercise book.





1. How many limes were sold?
2. How many oranges were sold?
3. How many peppers were sold?
4. How many bananas were sold?
5. How many melons were sold?
6. How many kumara were sold?

Copy and complete each subtraction sum in your exercise book.

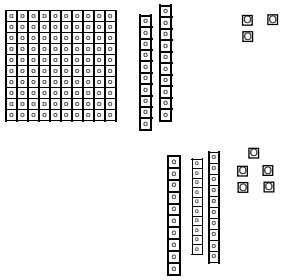
7. $\begin{array}{r} 19 \\ -12 \\ \hline \end{array}$
8. $\begin{array}{r} 34 \\ -13 \\ \hline \end{array}$
9. $\begin{array}{r} 27 \\ -16 \\ \hline \end{array}$
10. $\begin{array}{r} 38 \\ -21 \\ \hline \end{array}$
11. $\begin{array}{r} 56 \\ -32 \\ \hline \end{array}$
12. $\begin{array}{r} 64 \\ -23 \\ \hline \end{array}$

13. Mary collected 35 shells.
She gave Lisa 14.
How many were left?

14. John did 26 sums.
He got 13 wrong.
How many were right?

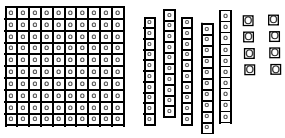
Talk about the activities with your teacher before you start.
Use number blocks to help you.
Write the answers in your exercise book.

Example.
Make 158.
Take away 35.
How many left?

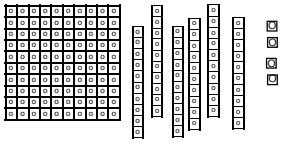


1. 158
- 35
128

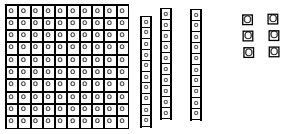
1.
Make 158.
Take away 35.
How many left?



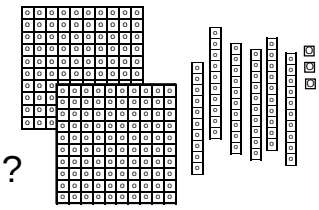
2.
Make 164.
Take away 52.
How many left?



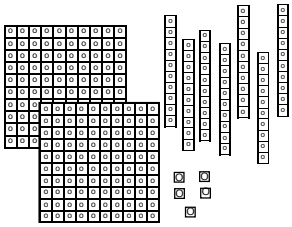
3.
Make 136.
Take away 25.
How many left?



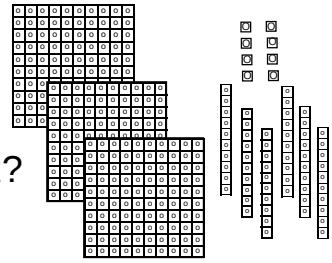
4.
Make 263.
Take away 41.
How many left?



5.
Make 275.
Take away 63.
How many left?



6.
Make 368.
Take away 62.
How many left?



7. 139
-124

8. 256
-125

9. 368
-142

10. 429
-117

11. 365
-214

12. 537
-125

13. 574
-352

14. 206
-103

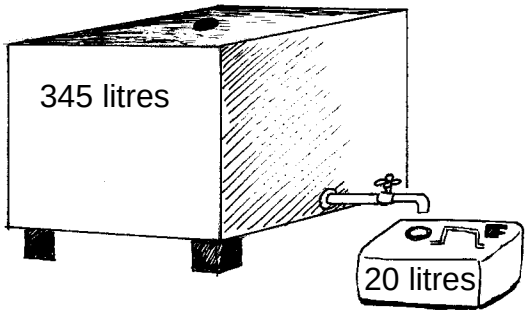
15. 347
-120

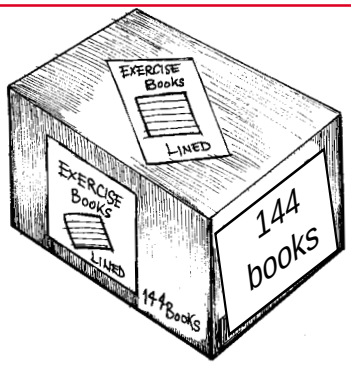
16. 837
-725

17. 458
-346

18. 342
-230

19. How many litres are left in the big tank?

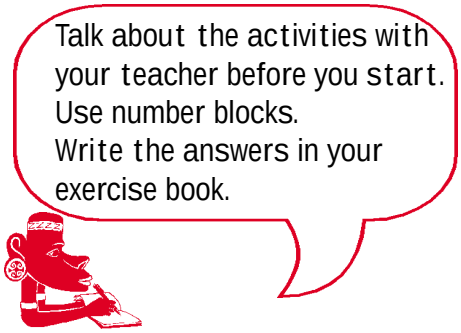




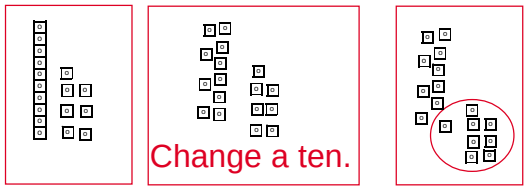
Class 3
32
children

20. Class 3 uses 32 books.
How many are left?

Unit 6. Number

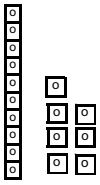


Example. 1. Make 17.
Take away 8.
How many are left?

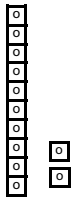


1. 9 left.

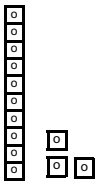
1. Make 17.
Take away 8.
How many are left?



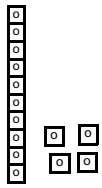
2. Make 12.
Take away 5.
How many are left?

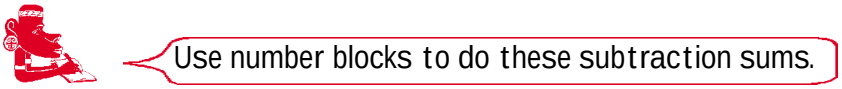


3. Make 13.
Take away 7.
How many are left?



4. Make 14.
Take away 6.
How many are left?





5. 17
- 9

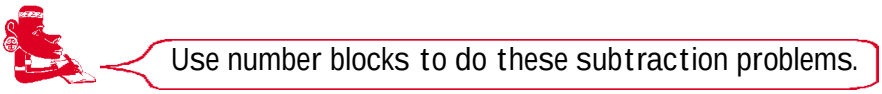
6. 15
- 8

7. 12
- 5

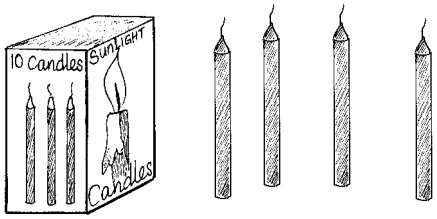
8. 14
- 7

9. 11
- 4

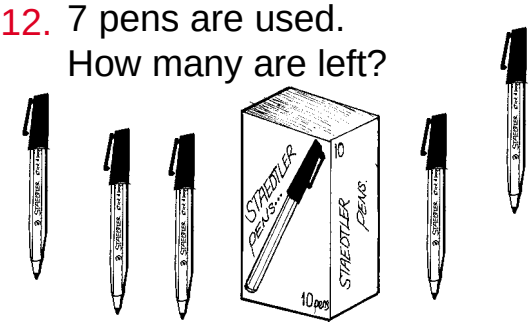
10. 13
- 6



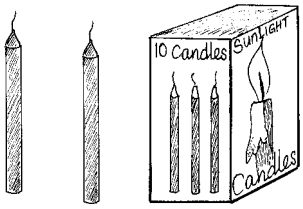
11. 8 candles are burned.
How many are left?



12. 7 pens are used.
How many are left?



13. 5 candles are burned.
How many are left?

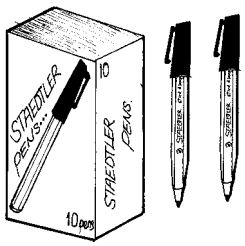


14. 6 pens are used.
How many are left?

Use number blocks to help you do these subtraction sums.
Write the answers in your exercise book.

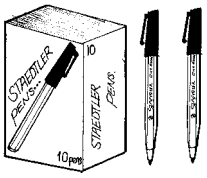
Example.

1. Take away 8.
How many left?

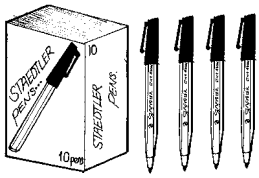


1. 12
- 8
4

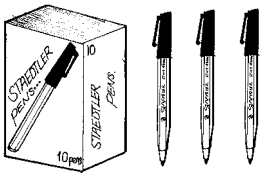
1. Take away 8.
How many left?



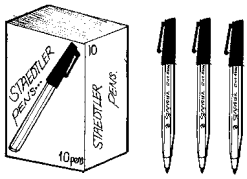
2. Take away 7.
How many left?



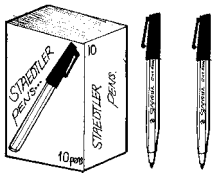
3. Take away 6.
How many left?



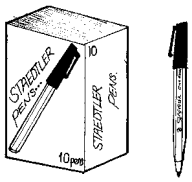
4. Take away 4.
How many left?



5. Take away 5.
How many left?



6. Take away 3.
How many left?



Use the number line to do these subtraction sums.

7. 13
- 5

8. 16
- 7

9. 15
- 6

10. 18
- 9

11. 16
- 7

12. 15
- 8

13. 12
- 7

14. 13
- 8

15. 14
- 9

16. 13
- 4

17. 18
- 7

18. 17
- 9

19. 12`
- 5

20. 17
- 8

21. 14
- 6

22. 18
- 9

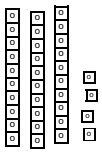
23. 15
- 7

24. 14
- 8

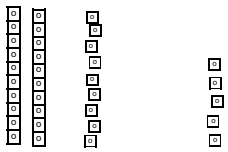
Unit 6. Number

Use number blocks to help you do these subtraction sums.
Write the answers in your exercise book.

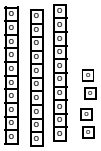
Example. 1. Make 34.
Take away 5.
How many left?



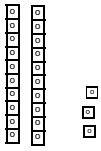
1. $\cancel{34}^{2\ 14}$
- 5
29



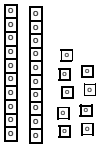
1. Make 34.
Take away 5.
How many left?



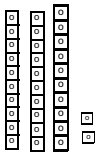
2. Make 23.
Take away 6.
How many left?



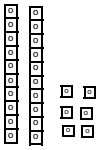
3. Make 27.
Take away 8.
How many left?



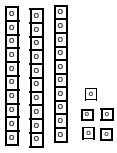
4. Make 32.
Take away 4.
How many left?



5. Make 26.
Take away 9.
How many left?



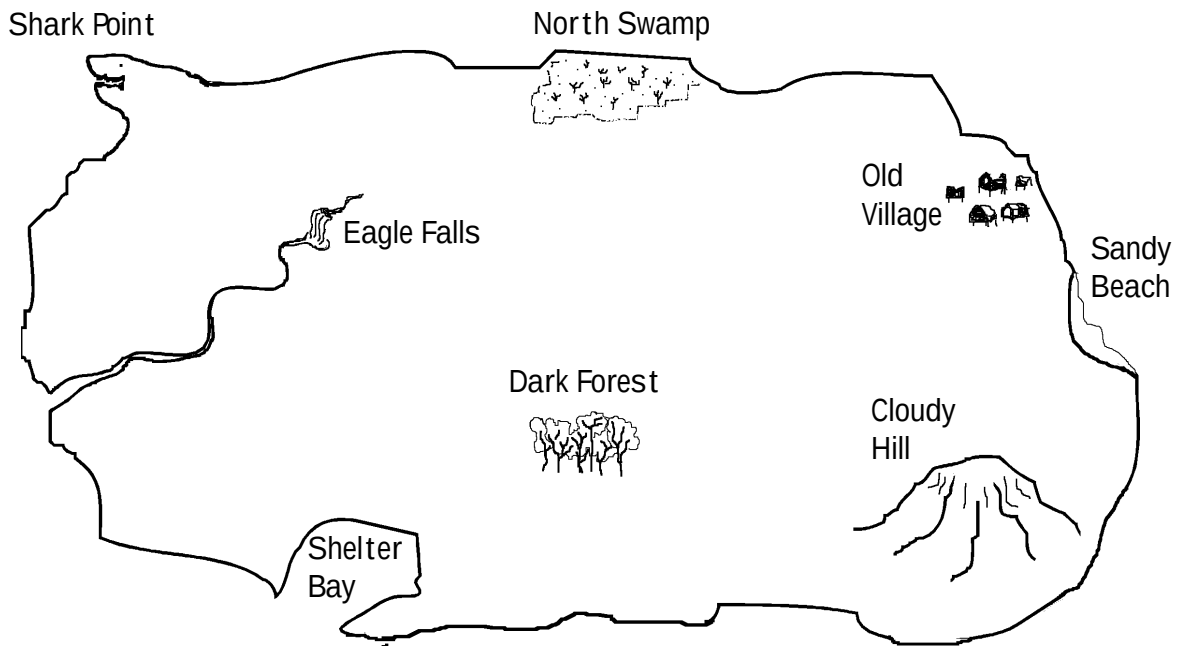
6. Make 35.
Take away 7.
How many left?



Use number blocks to do these subtraction sums.

7. 32 - 7	8. 41 - 9	9. 26 - 8	10. 43 - 6	11. 24 - 7
12. 35 - 9	13. 42 - 6	14. 31 - 5	15. 43 - 4	16. 27 - 9
17. 41 - 3	18. 56 - 9	19. 34 - 8	20. 51 - 4	21. 46 - 7
22. 35 - 8	23. 53 - 2	24. 18 - 9	25. 12 - 6	26. 20 - 4

Kakamora's Island Map



Where on the island does the Kakamora live?

Find the answer to each sum.
Change each number to a letter, using the table below.
For example, if the answer is 6, change it to letter f.

1 = a,	2 = b,	3 = c,	4 = d,	5 = e,	6 = f,	7 = g,	8 = h,
9 = i,	10 = j,	11 = k,	12 = l,	13 = m,	14 = n,	15 = o,	16 = p,
17 = q,	18 = r,	19 = s,	20 = t,	21 = u,	22 = v,	23 = w,	24 = x,
25 = y,	26 = z.						

1. 23 - 8 = ____
2. 31 - 19 = ____
3. 12 - 8 = ____
4. 51 - 29 = ____
5. 36 - 27 = ____
6. 26 - 14 = ____
7. 41 - 29 = ____
8. 38 - 37 = ____
9. 26 - 19 = ____
10. 52 - 47 = ____

Write ten sums of your own to spell a place on the island where Kesoko lives. Try your ten sums on your friends.

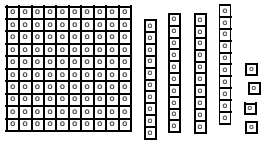
Unit 6. Number

Use number blocks to help you do these subtraction sums.
Write the answers in your exercise book.

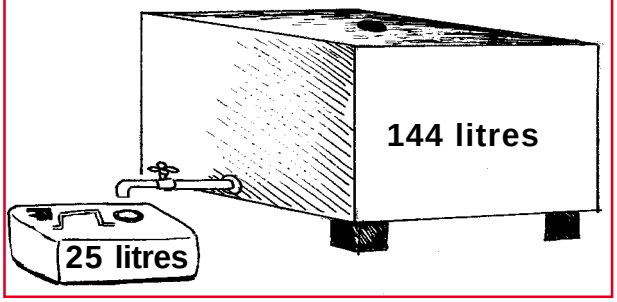
Example.

1. How many litres are left in the big tank?

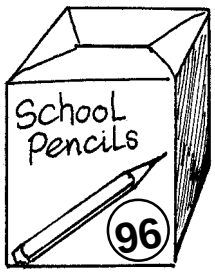
1.
```
     3 14
   1 ~~4~~ ~~4~~
 -   2 5
 -------
   1 1 9
```



1. How many litres are left in the big tank?



2. Class Three uses 29 pencils. How many pencils are left?



Class 3
29 pencils

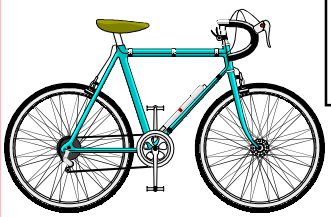
3. How many children are at school today?

Kikole School

Total Number of children 134

Absent today 16

4. How much does the bicycle cost now?



Sale today.
$129 off.

$535

Use number blocks to do these subtraction sums.

5. 146
-122

6. 245
-134

7. 264
-100

8. 538
-215

9. 154
- 19

10. 145
- 16

11. 173
- 26

12. 182
- 25

13. 256
-139

14. 341
-125

15. 253
-127

16. 362
-245

Complete these subtraction sums with trading in the tens and hundreds.

Example.

1.
```
   2 15
   3 ~~3~~ ~~5~~
 - 1 1 7
 -------
   2 1 8
```

Write the sums and answers in your exercise book.

1. 335 − 117
2. 346 − 128
3. 265 − 137
4. 253 − 115
5. 313 − 42
6. 245 − 52
7. 173 − 26
8. 137 − 85
9. 435 − 173
10. 538 − 165
11. 659 − 367
12. 348 − 185

13. There were 136 pineapples at the market.
82 were sold.
How many were left?

14. There were 253 pumpkins in a garden.
160 were picked one day.
How many were left?

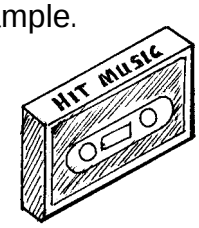
15. There were 126 children in a school. 53 were boys.
How many were girls?

16. Mister Bamboo had 235 pieces of timber.
He used 152 to build a house.
How many were left?

Unit 6. Number

The store is having a big sale.
Find the new price of each item by subtracting. Use number blocks.
Write the answers in your exercise book.

Example.



$35

Sale today.
$9 off.

1.

```
  2 15
  ~~3~~ ~~5~~
-   9
  2 6
```

1.

$35

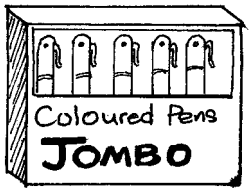
Sale today.
$9 off.

2.

$139

Sale today.
$55 off.

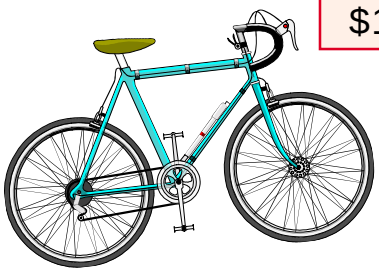
3.



$65

Sale today.
$18 off.

4.



$565

Sale today.
$170 off.

5.

Sale today.
$9 off.

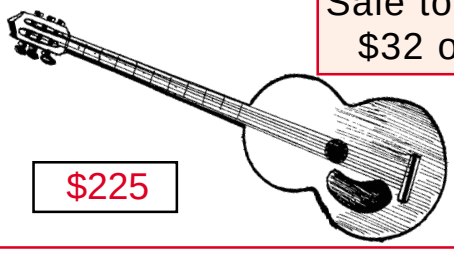
$45

6.

$135

Sale today.
$49 off.

7.

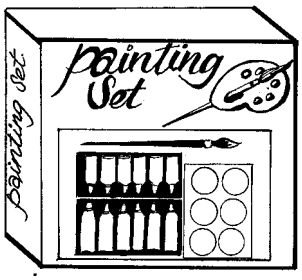


$225

Sale today.
$32 off.

8.

Sale today.
$49 off.

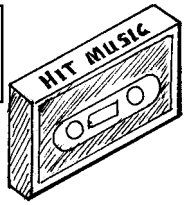


$135

Find the correct change by subtracting. Write the sums and answers in your exercise book.

Example.

I have $50



$35

1.

$$\begin{array}{r} 4\ \ 10 \\ \cancel{5}\ \cancel{0} \\ -\ 3\ 5 \\ \hline 1\ 5 \end{array}$$

1.

I have $50

$35

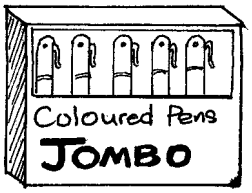
2.

I have $150

$139

3.

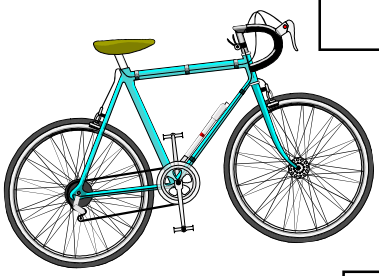
I have $80



$65

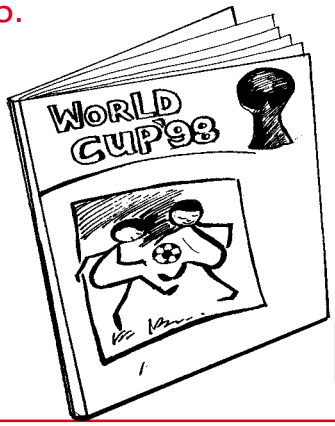
4.

I have $605



$565

5.

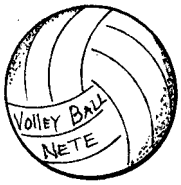


I have $50

$45

6.

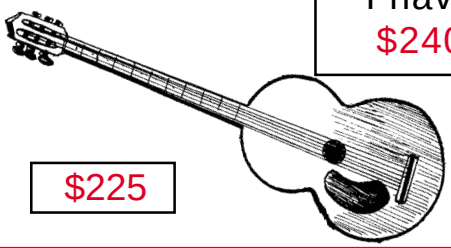
I have $205



$135

7.

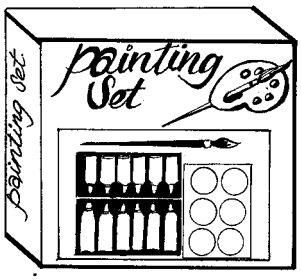
I have $240



$225

8.

I have $205.



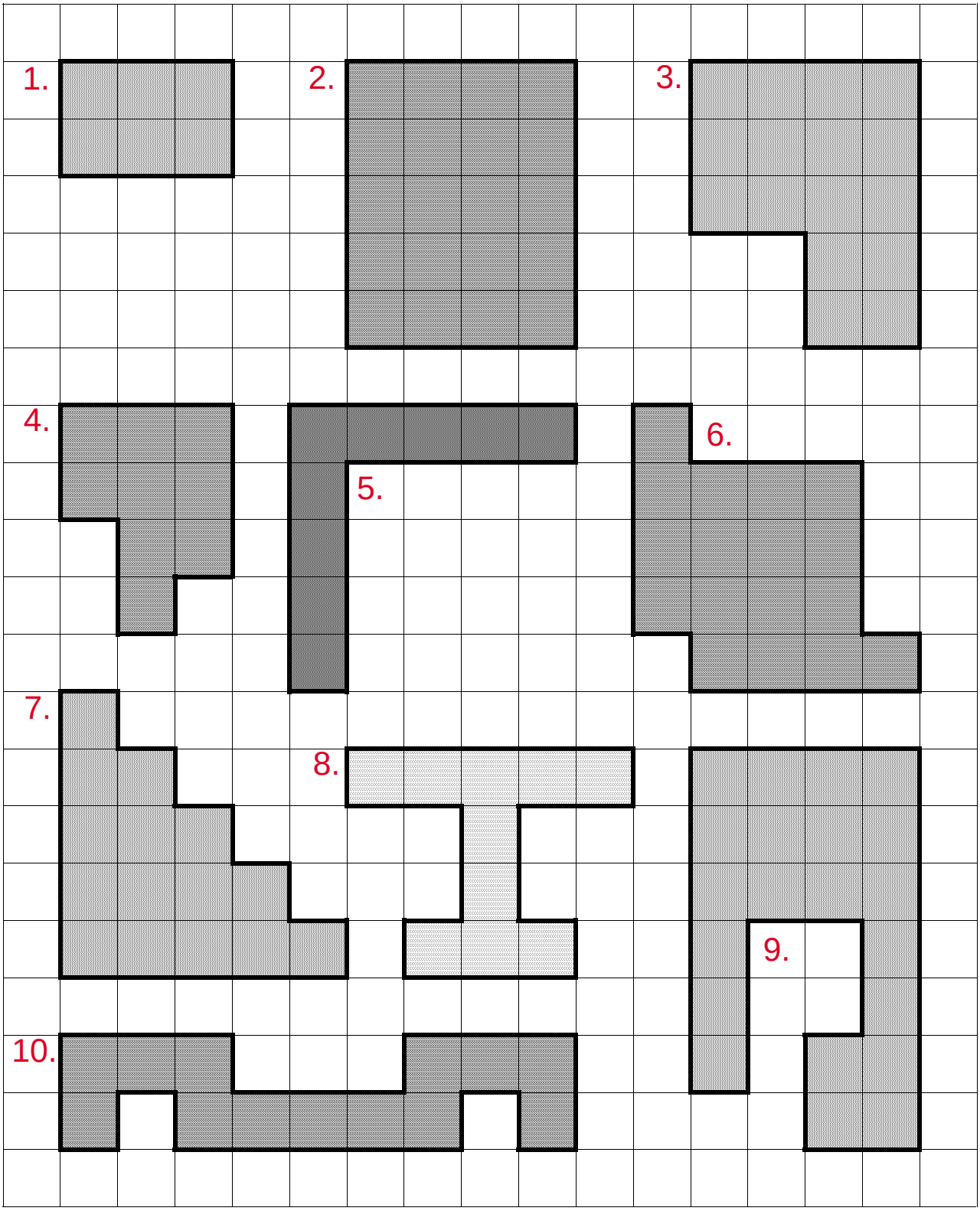
$135

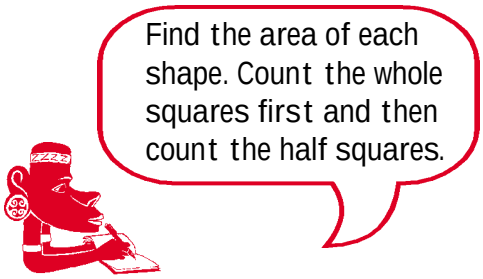
Unit 7. Measurement

Count the number of squares inside each shape. Write the answer in your exercise book.

Example.

1. Shape 1 has an area of 6 squares.

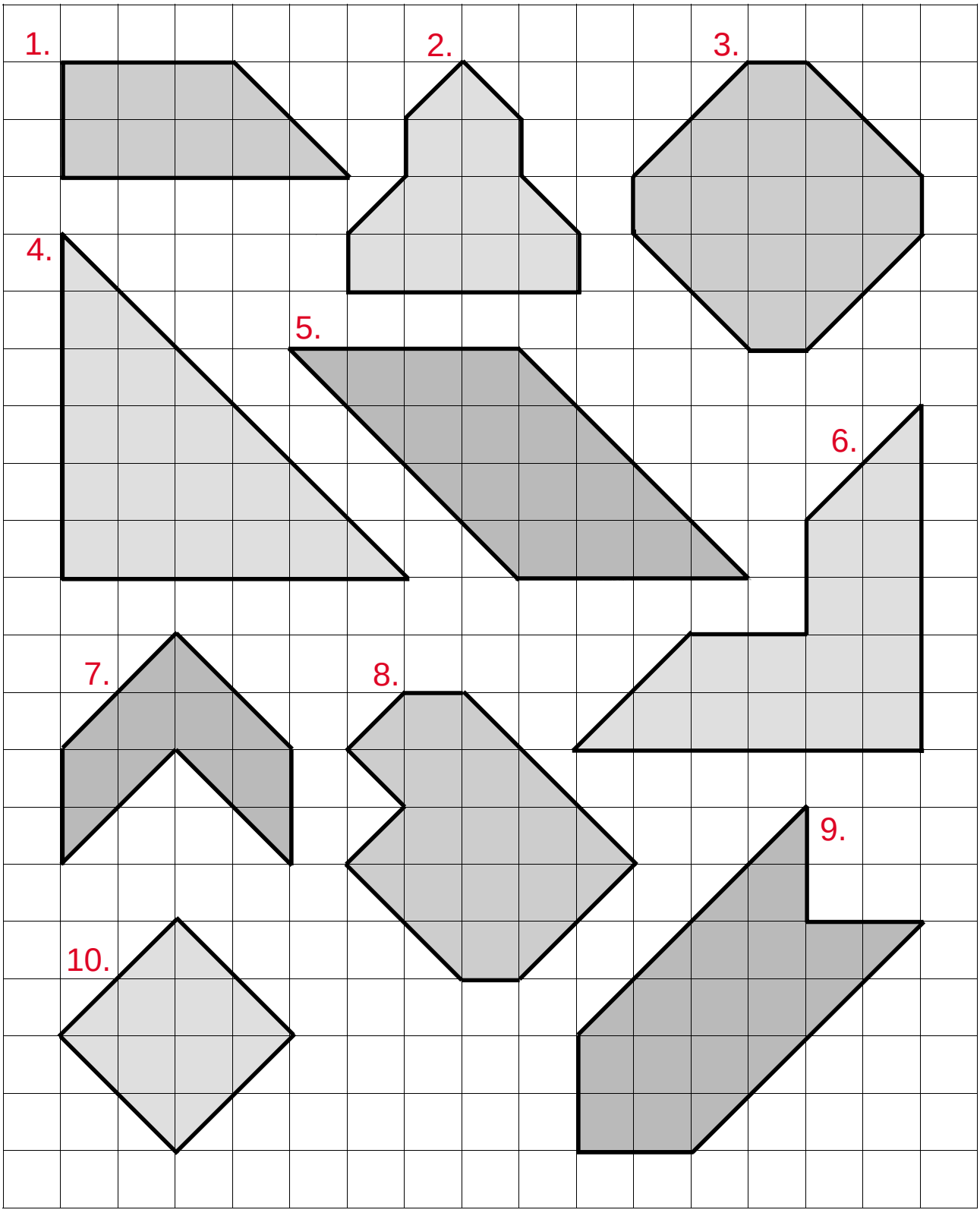




Example.

1. There are 7 whole squares and 2 half squares.

Shape 1 has an area of 8 squares.



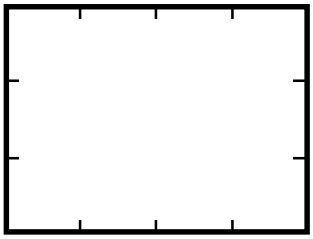
Unit 7. Measurement

Copy these shapes carefully into your book. Then draw squares inside to find the area of each one.

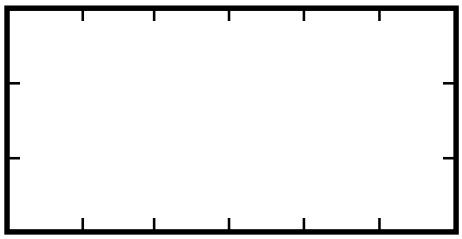
Example.

1. Shape 1 has an area of 12cm^2

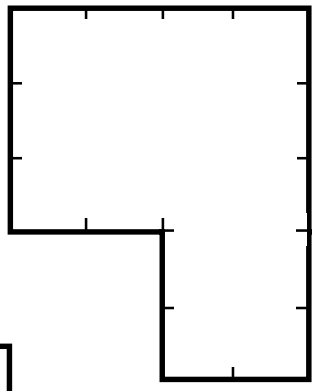
1.



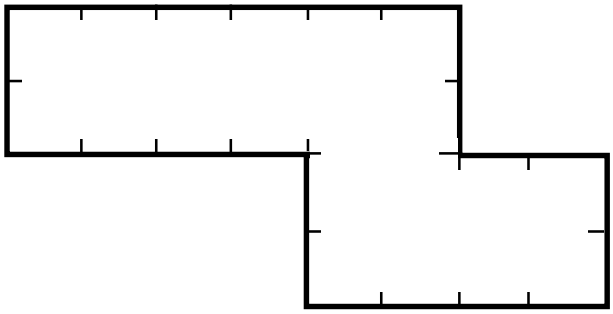
2.



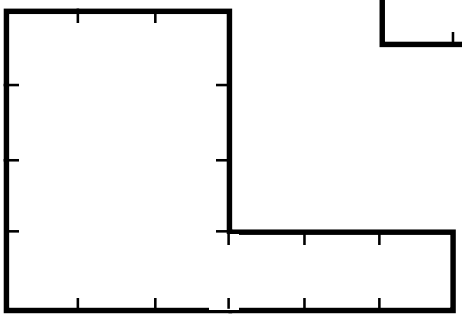
3.



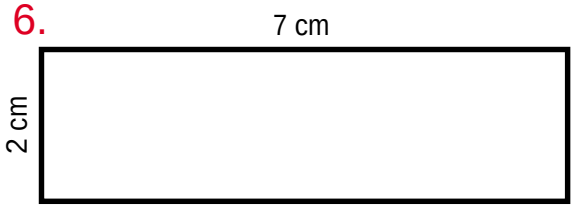
4.



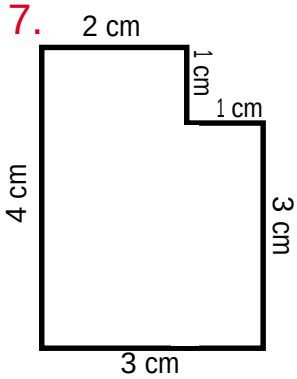
5.



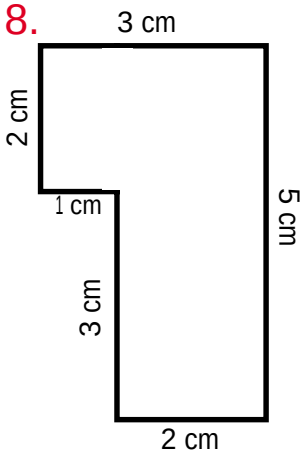
6.



7.

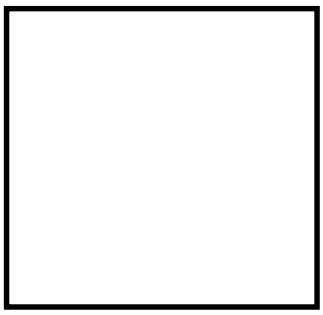


8.



Measure these two shapes carefully with a ruler.

9.



10.

Unit 8. Number

Practise working these addition sums in your head. Write the answers in your exercise book.

Example.

1. 4 + 3 + 6 + 2

Add 6 + 4 first to make 10. Then add on 3 + 2.

1. 15

First add the two numbers which make ten. How many sums can you do in three minutes?

1. 4 + 3 + 6 + 2
2. 2 + 0 + 5 + 8
3. 5 + 1 + 5 + 4
4. 7 + 6 + 2 + 3
5. 3 + 2 + 7 + 5
6. 5 + 1 + 3 + 7
7. 6 + 1 + 5 + 4
8. 6 + 6 + 4 + 2
9. 9 + 3 + 3 + 1
10. 1 + 5 + 9 + 2
11. 5 + 0 + 10 + 3
12. 5 + 4 + 3 + 6

Add all the numbers in each box. First add the two numbers which make ten. How many sums can you do in three minutes?

13. 5 3 2 5 4
14. 6 3 4 0 1
15. 3 5 2 8 1
16. 1 3 2 5 7
17. 5 6 7 4 5
18. 7 3 9 1 7
19. 3 5 6 2 5 7
20. 9 2 3 4 8 1
21. 4 4 2 3 1 6

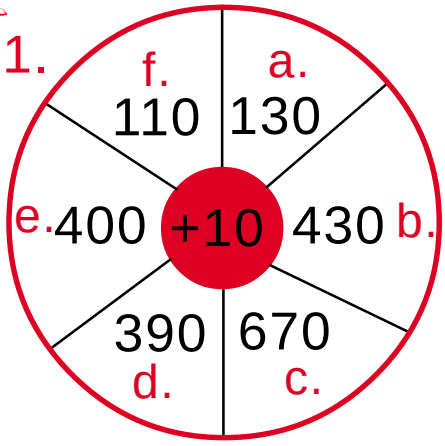
Add or subtract the number in the red circle. Write the answers only in your exercise book.

Example.

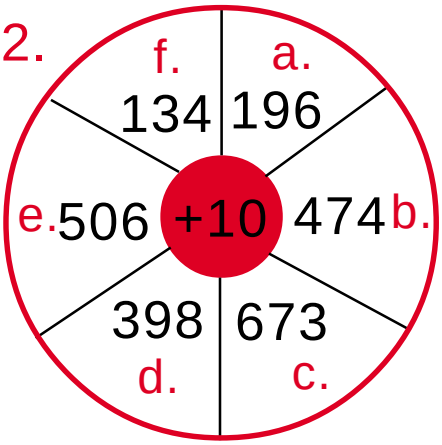
1. a. 140 (130 + 10)
   b. 440 (430 + 10)
   c.
   d.

Add ten to each number in the big circle.

1.

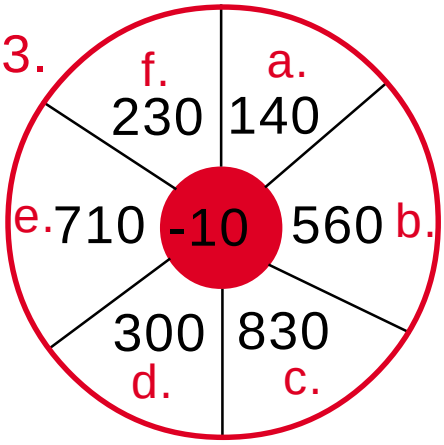


2.

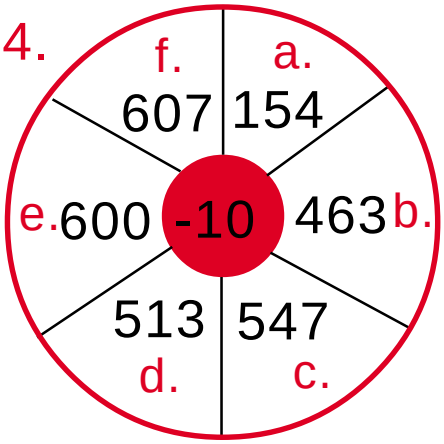


Subtract ten from each number in the big circle.

3.

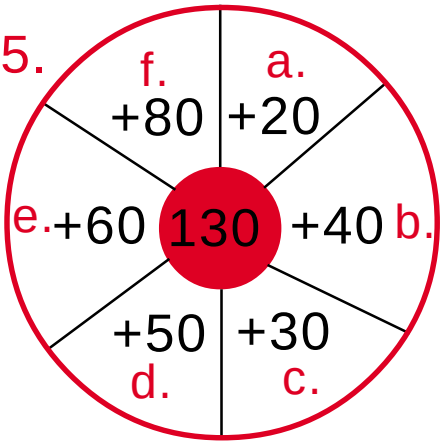


4.

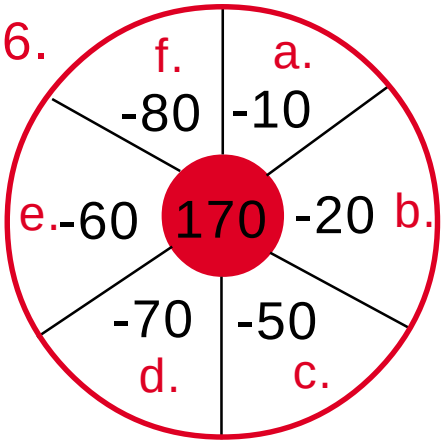


Add and subtract.
Write the answers only.

5.



6.



Unit 8. Number

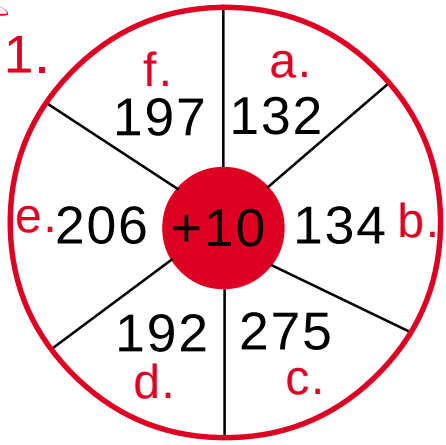
Add or subtract the number in the red circle. Write the answers only in your exercise book.

Example.

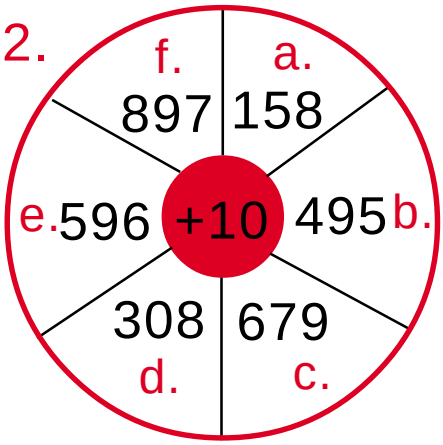
1. a. 142 (132 + 10)
   b. 144 (134 + 10)
   c.
   d.

Add ten to each number in the big circle.

1.

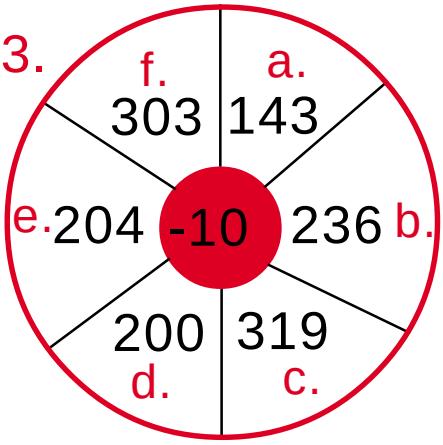


2.

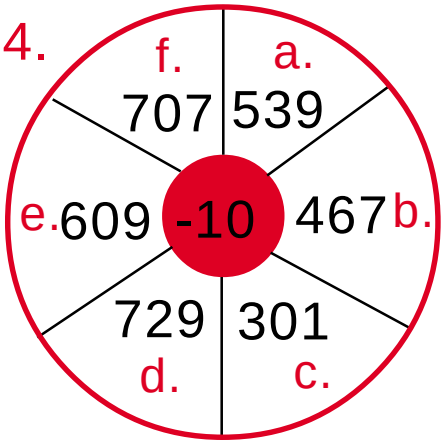


Subtract ten from each number in the big circle.

3.

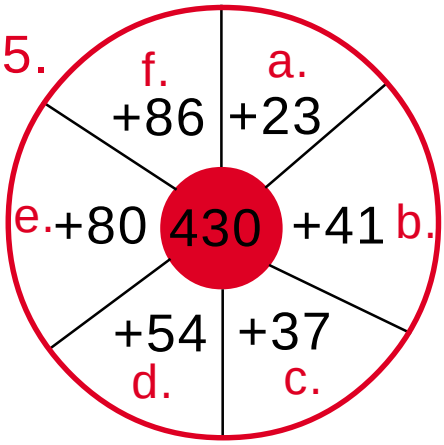


4.

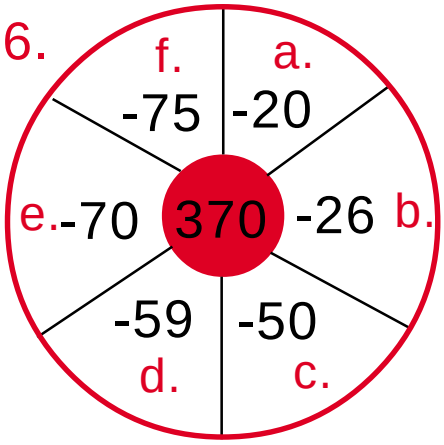


Add and subtract.
Write the answers only.

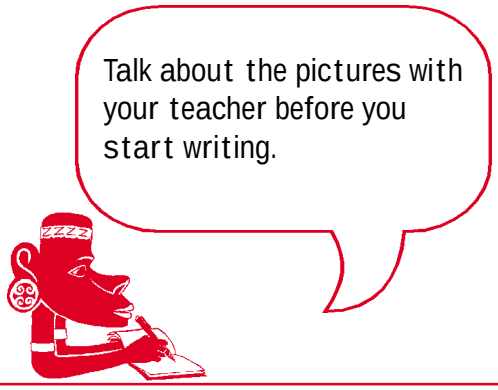
5.



6.

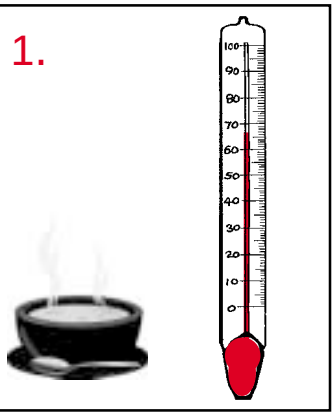


Example.



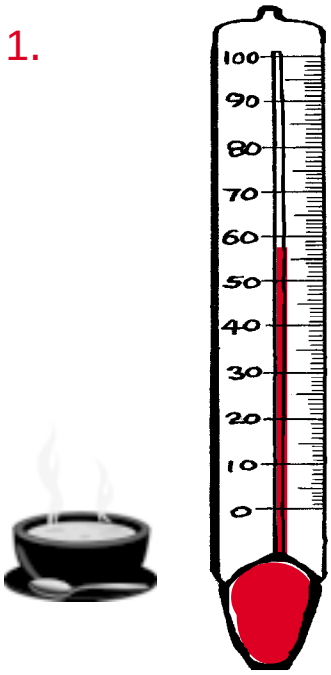
1. 67

1.

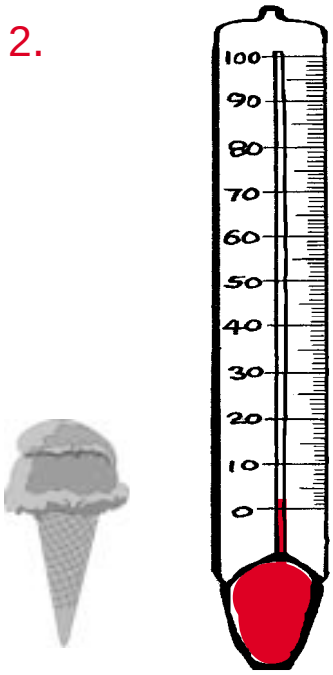


Write the temperature shown on each thermometer.

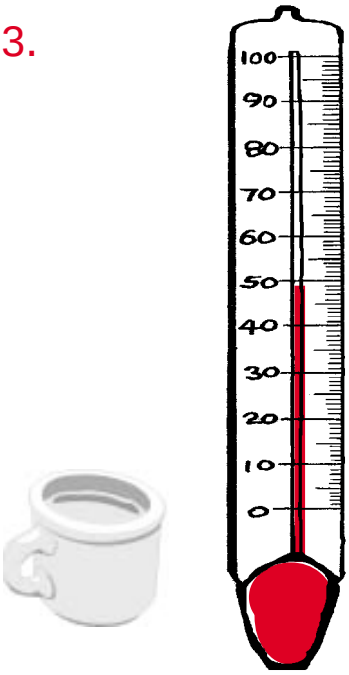
1.



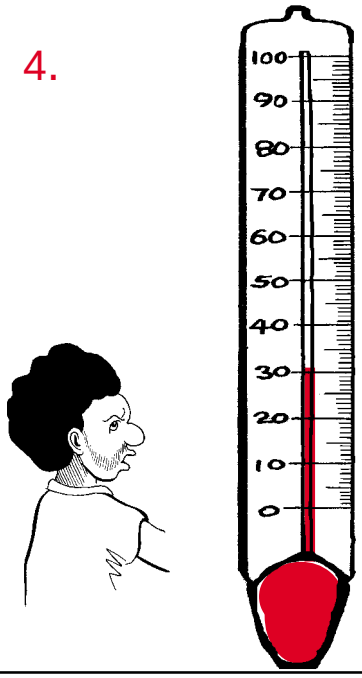
2.



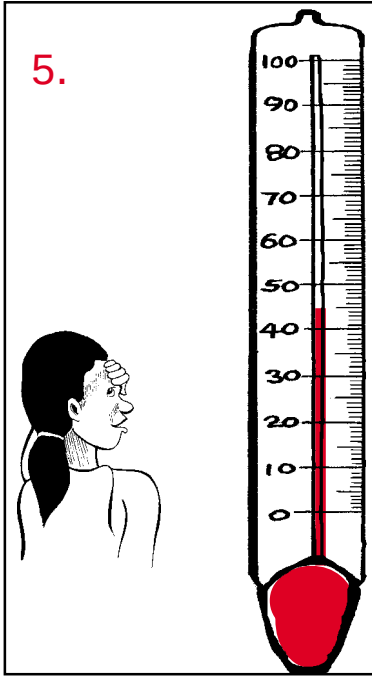
3.



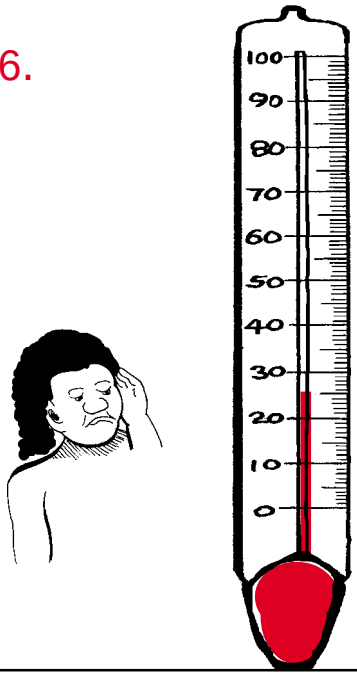
4.



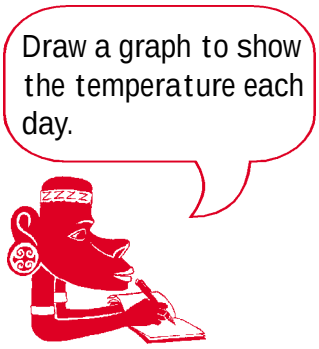
5.



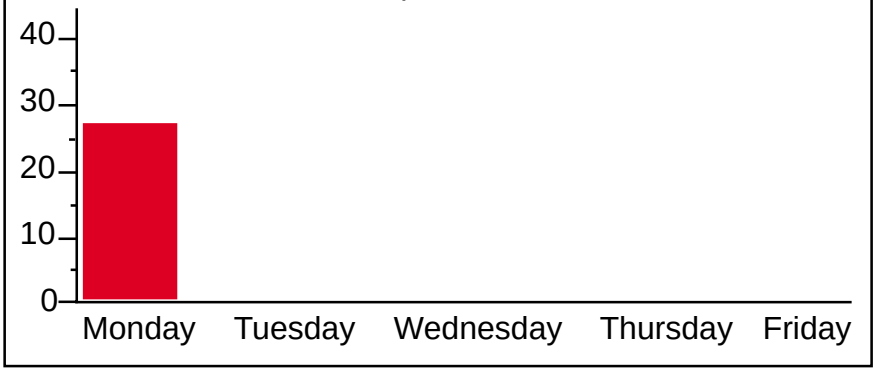
6.

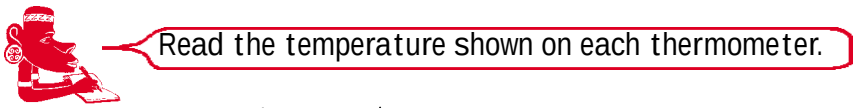


Unit 9. Graphs

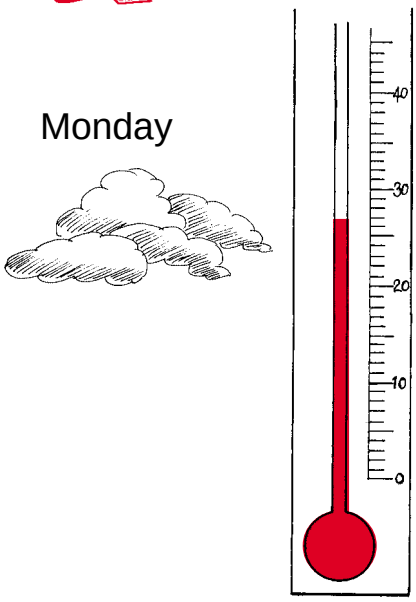


Example.

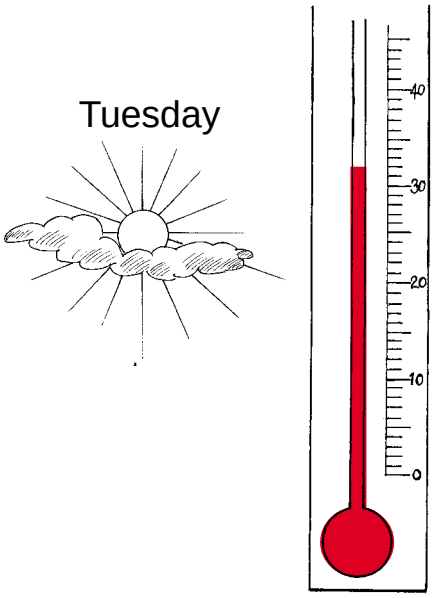




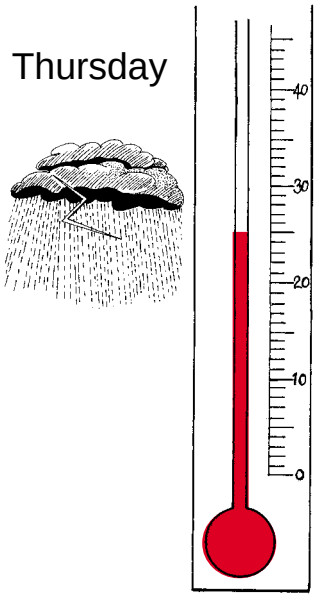
Monday



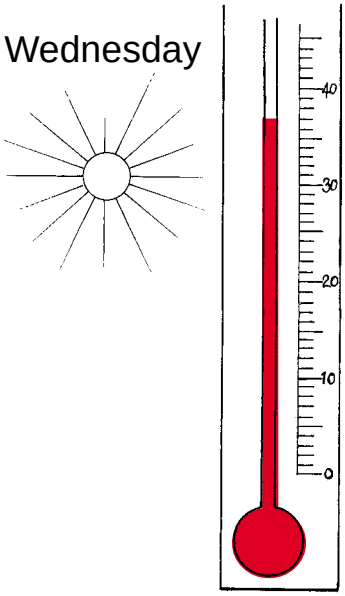
Tuesday



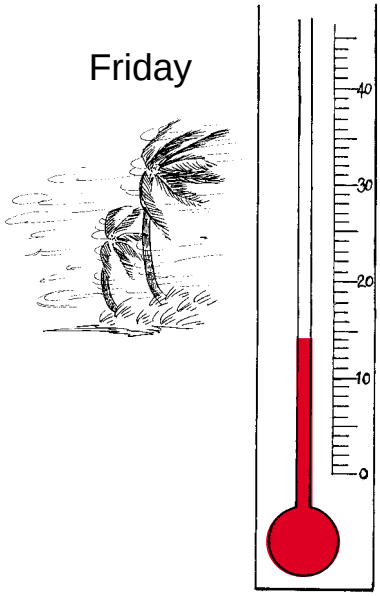
Thursday



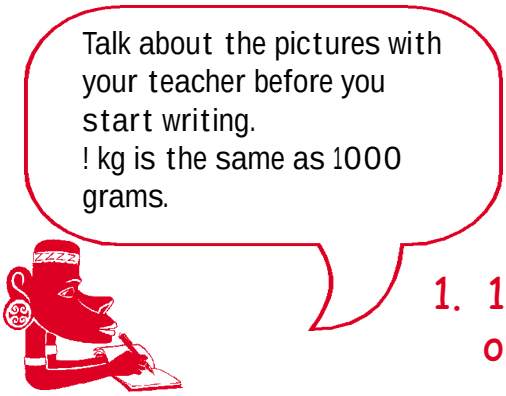
Wednesday



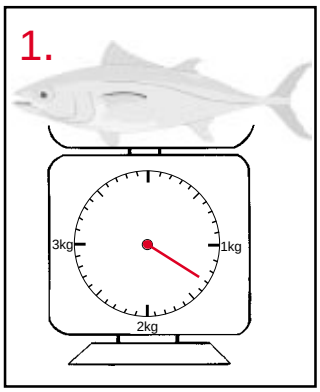
Friday

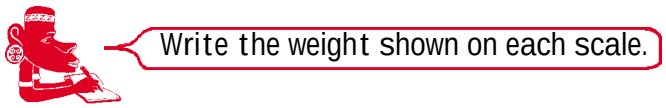


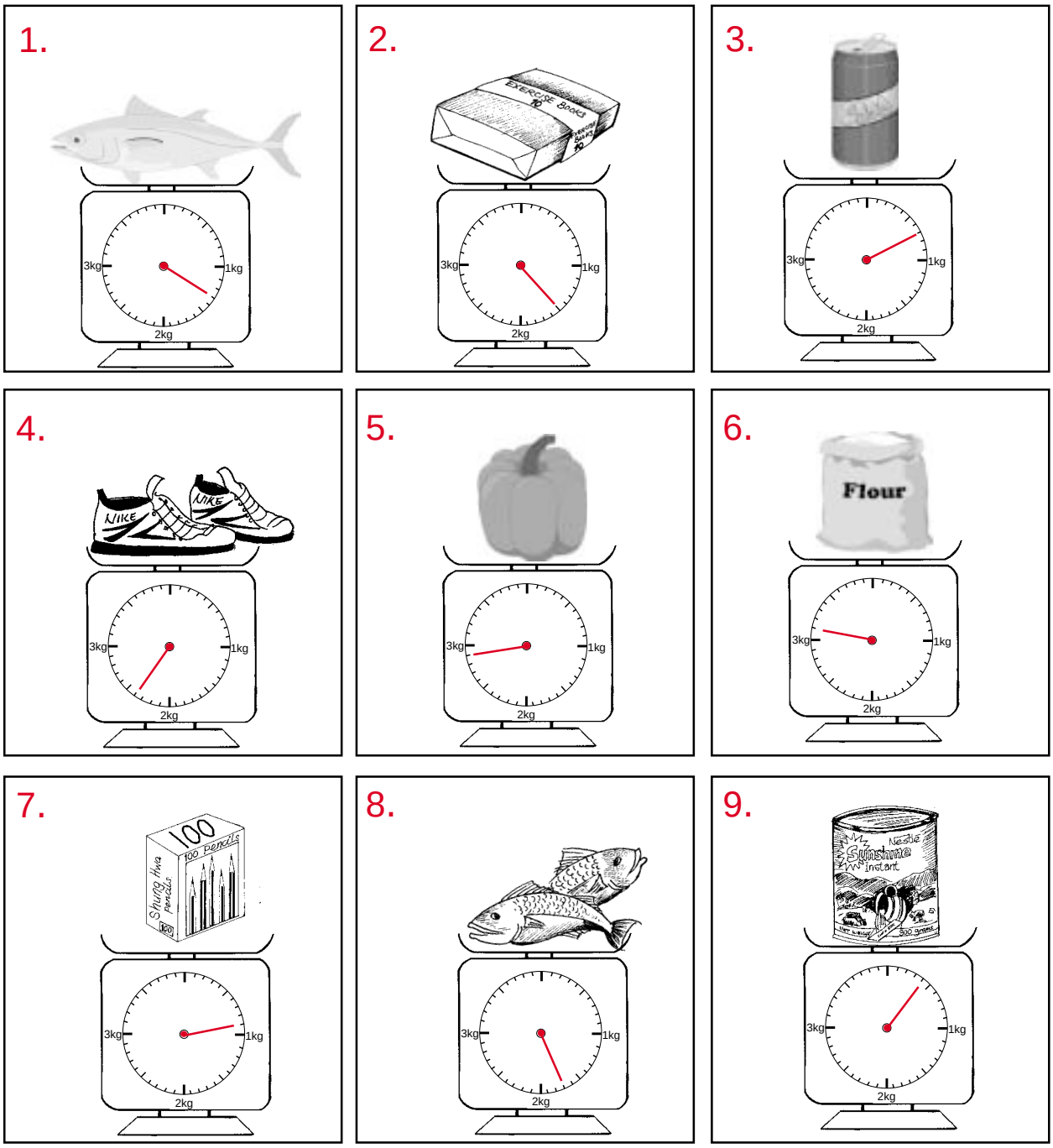
Example.



1. 1 kg and 300 grams or 1,300 grams.







Unit 10. Number

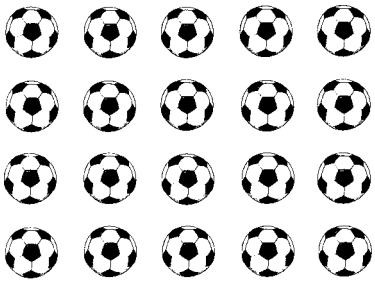
Count the rows and columns. Write two multiplication sentences for each question.

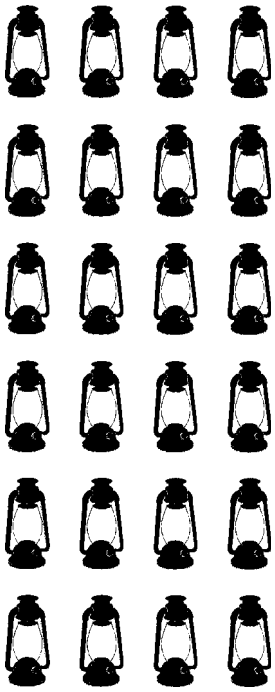
Example.

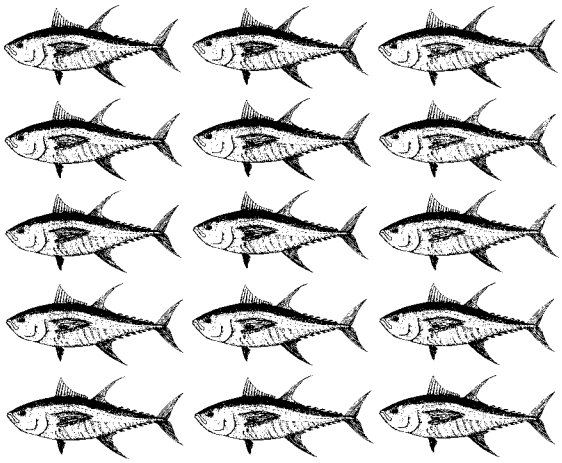
1 . There are 2 rows of 4, or 4 columns of 2.

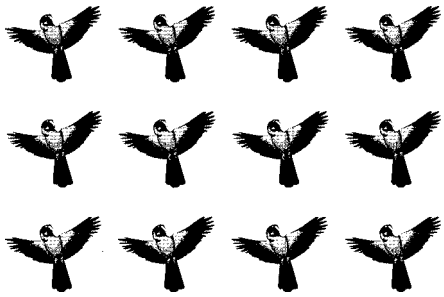
2 x 4 = 8
4 x 2 = 8

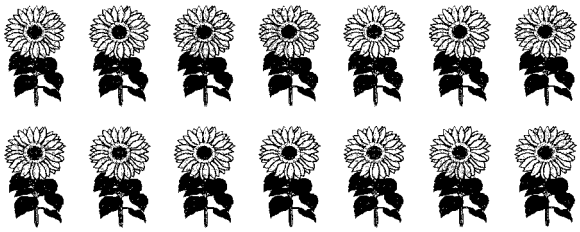
1.

2. 

3. 

4. 

5. 

6. 

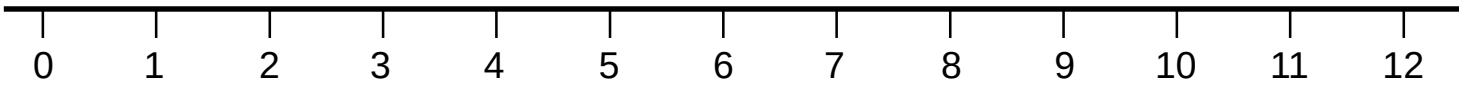
7. 2 x 6 =
6 x 2 =

8. 7 x 3 =
3 x 7 =

9. 6 x 5 =
5 x 6 =

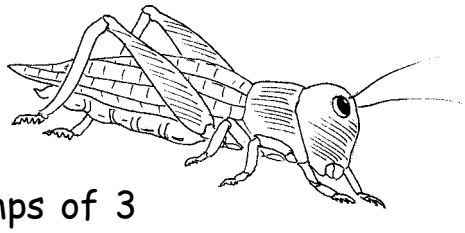
10. 7 x 4 =
4 x 7 =

Now draw rows and columns to help you with these.



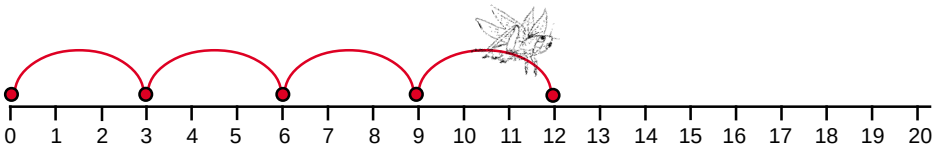
How many hops does Grace the Grasshopper make? Write the multiplication sentence each time.

Example.

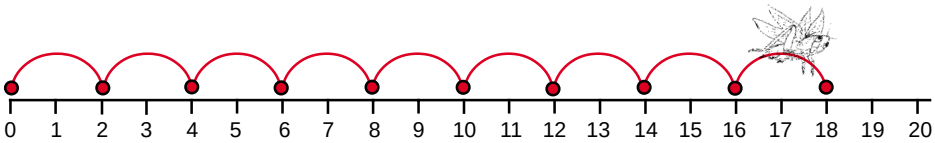


1 . 4 jumps of 3
4 x 3 = 12

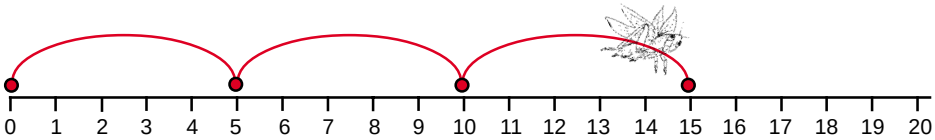
1.



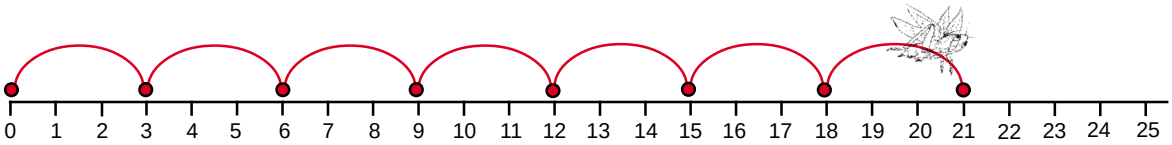
2.



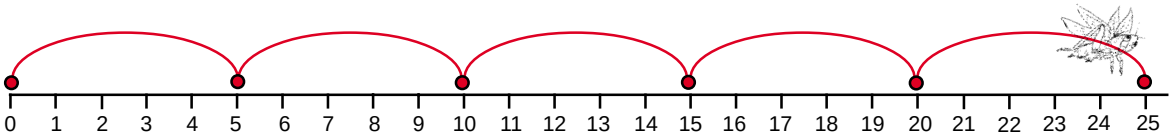
3.



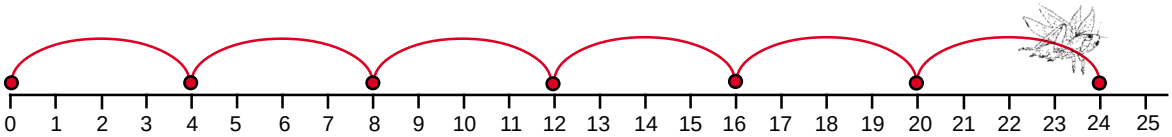
4.



5.



6.



Now use the number line to help you find the answers.

7. 3 x 4 =

8. 7 x 2 =

9. 4 x 5 =

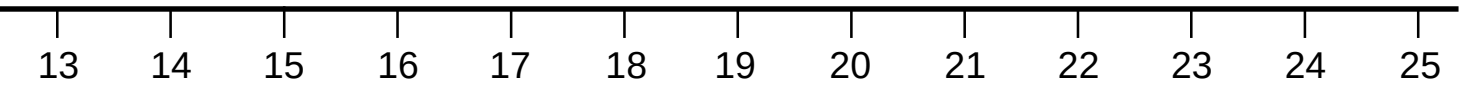
10. 6 x 3 =

11. 4 x 4 =

12. 10 x 2 =

13. 2 x 5 =

14. 8 x 3 =



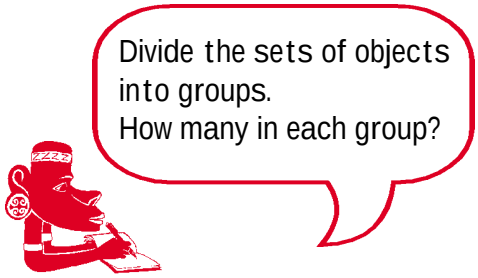
Unit 11. Number

Find patterns of 2's, 3's, 4's and 5's in the number square.

Example.

1	2		4	5		7	8		10
11		13	14		16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



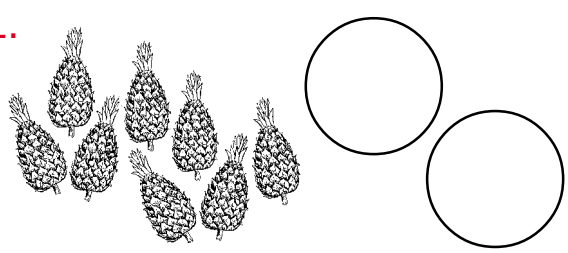
Example.

6 shared between 2

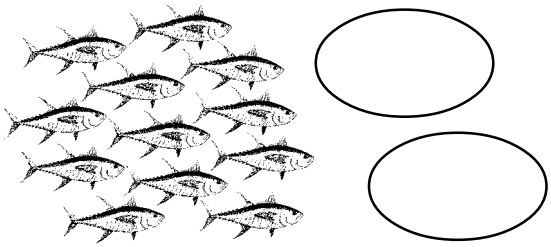
3 shells each

6 ÷ 2 = 3

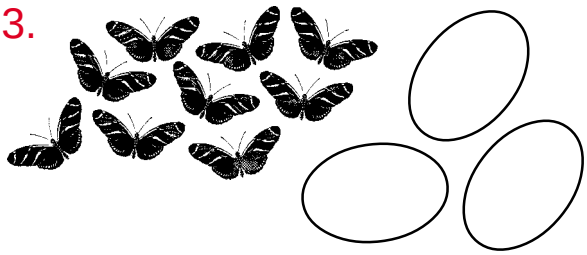
1.



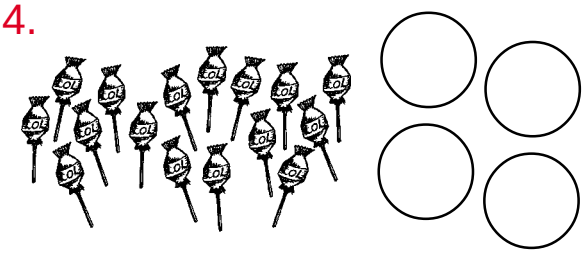
2.



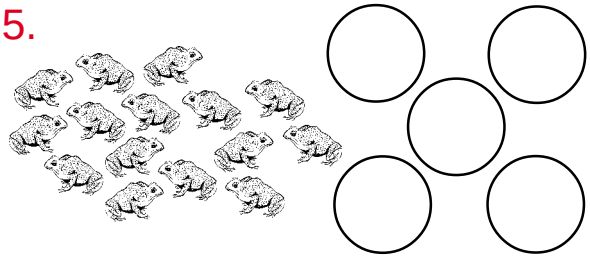
3.



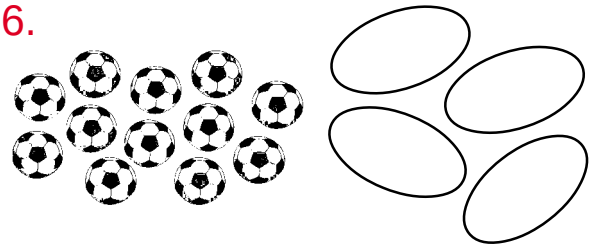
4.



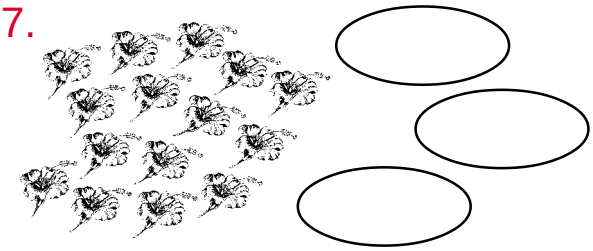
5.



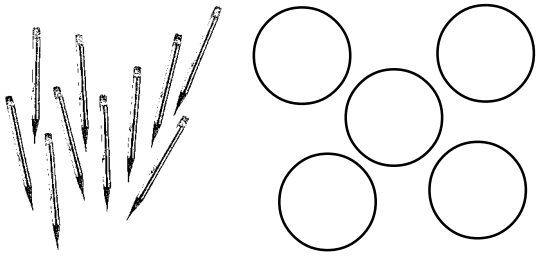
6.

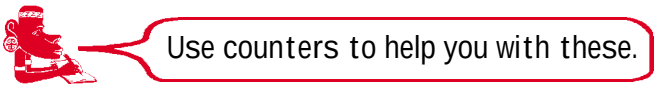


7.



8.





9. 6 ÷ 3 =

10. 8 ÷ 4 =

11. 10 ÷ 2 =

12. 12 ÷ 3 =

13. 14 ÷ 2 =

14. 12 ÷ 6 =

15. 18 ÷ 3 =

16. 21 ÷ 3 =

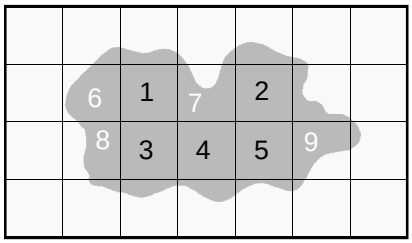
17. 20 ÷ 5 =

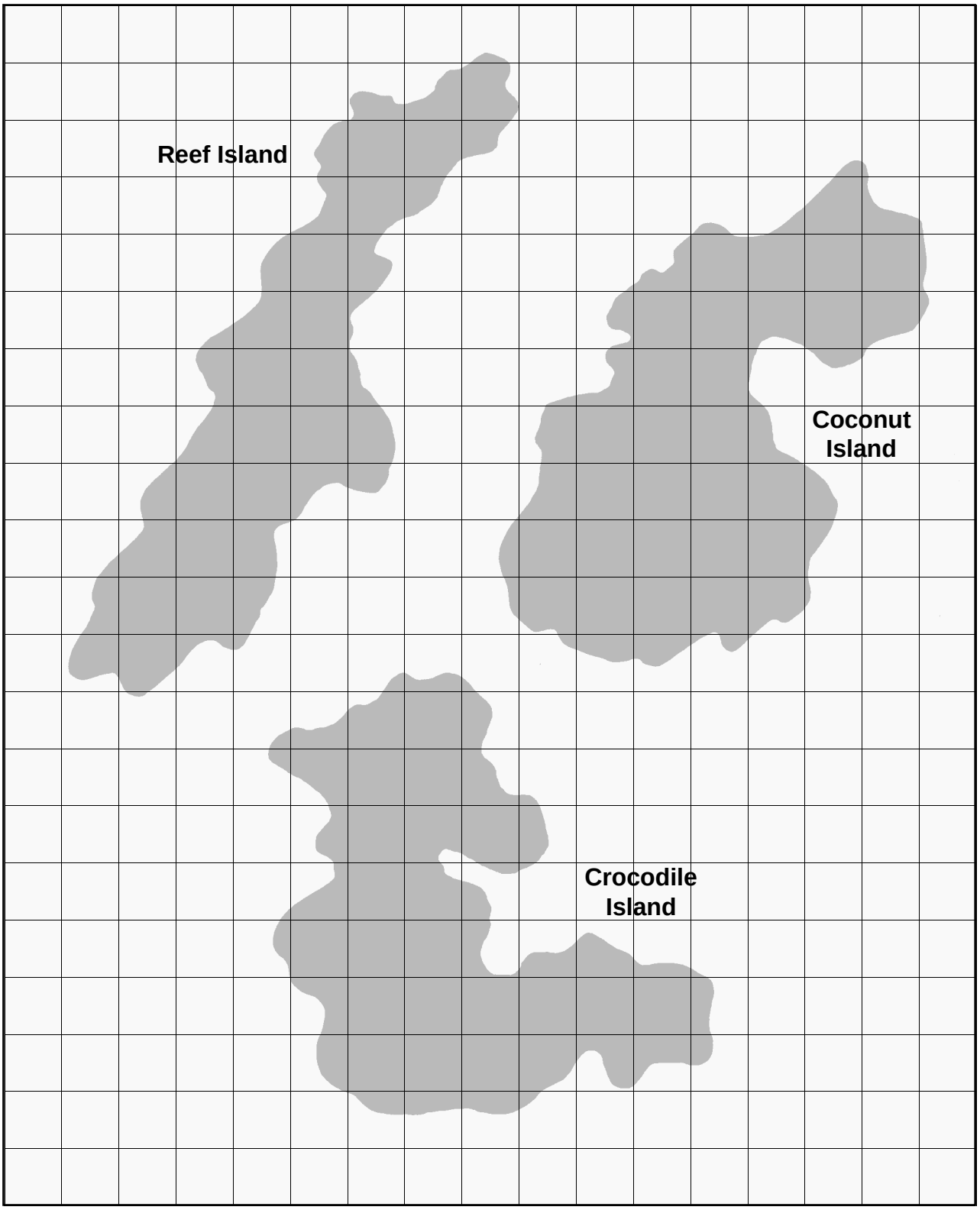
Unit 12. Measurement

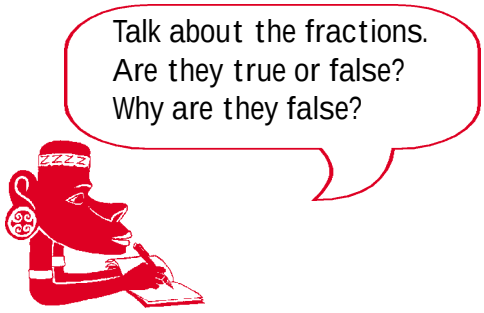
Find the area of each island. Count the whole squares first, then the parts which are more than half a square.

Example.

Area - 9 squares



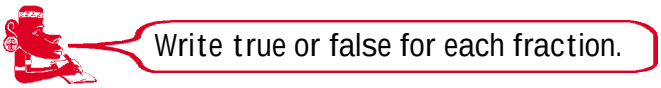


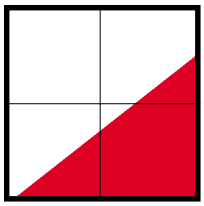


Example.

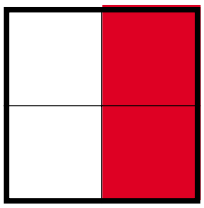
1. False.

(The parts are not the same size.)

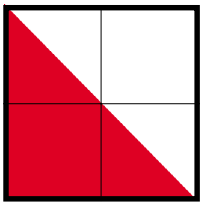




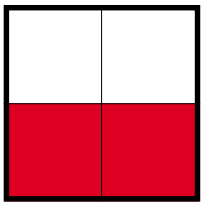
1. one half



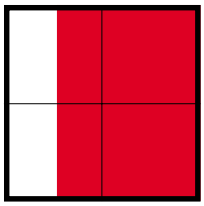
2. one half



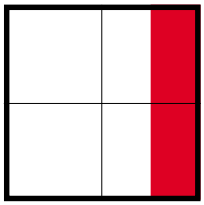
3. one half



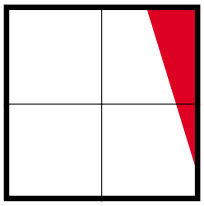
4. one half



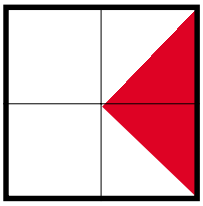
5. one half



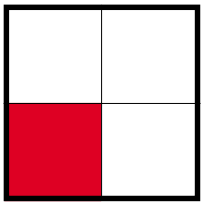
6. one quarter



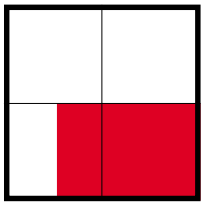
7. one quarter



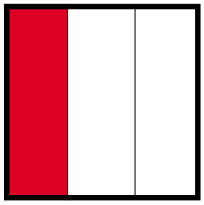
8. one quarter



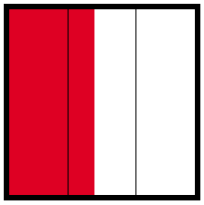
9. one quarter



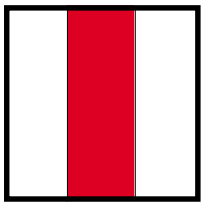
10. one quarter



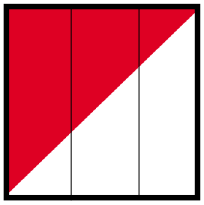
11. one third



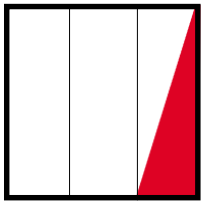
12. one third



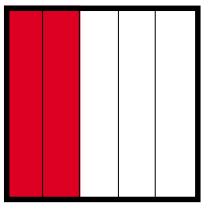
13. one third



14. one third

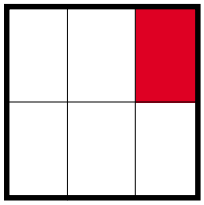


15. one third

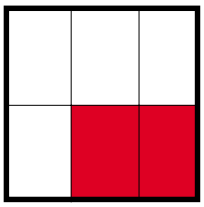


16. one fifth

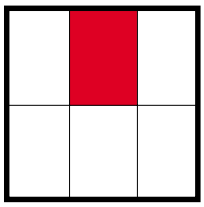
17. one fifth



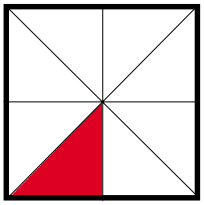
18. one sixth



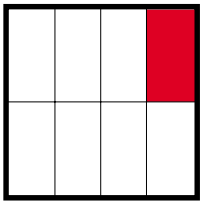
19. one sixth



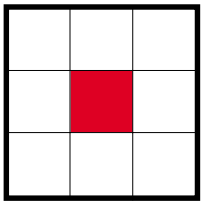
20. one sixth



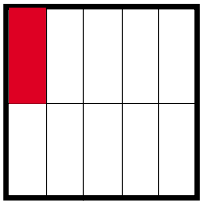
21. one eighth



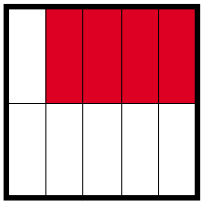
22. one eighth



23. one ninth



24. one tenth

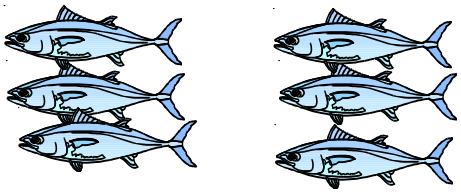


25. one tenth

Unit 13. Number

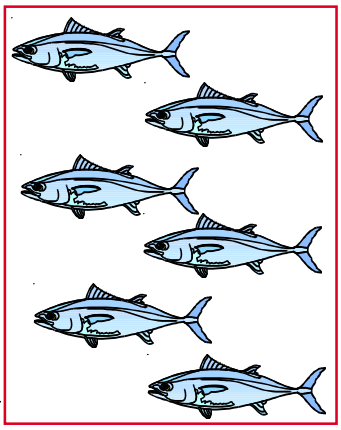
Talk about the activities before you begin writing. Write the answers in your exercise book.

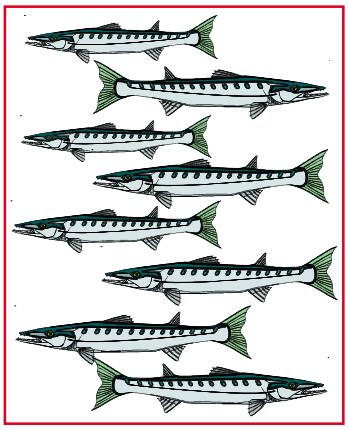
Example.

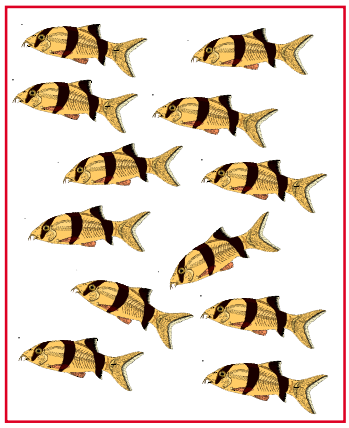


1. 3 each

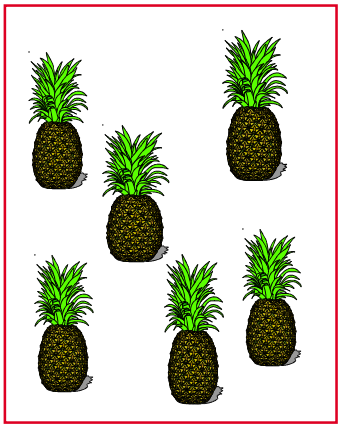
Share among 2. How many each?



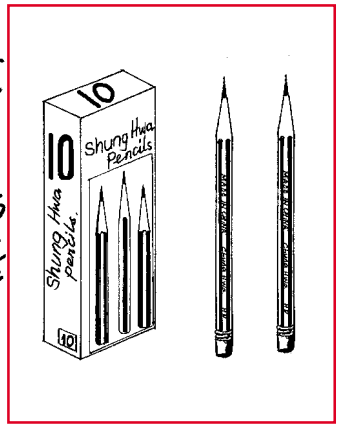


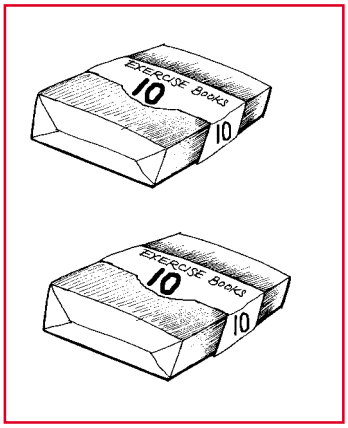


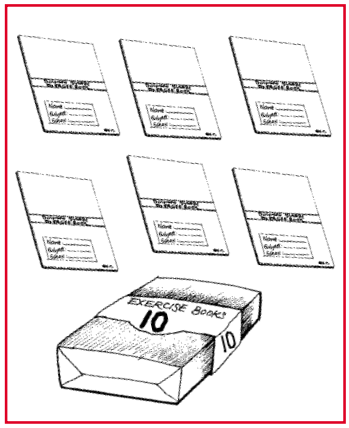
Share among 3. How many each?



Share among 4. How many each?

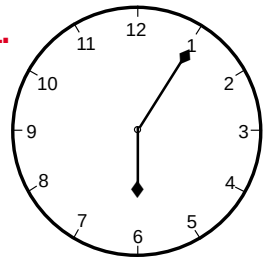






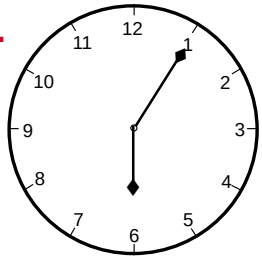
Talk about the questions with your teacher before you start writing.
Write the answers in your exercise book.

Example.

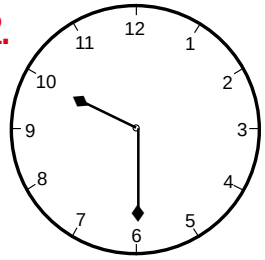
1. 

five past six

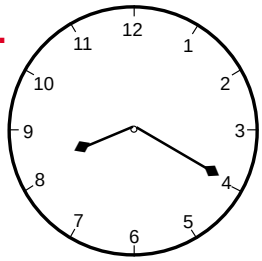
Write the correct time for each clock.

1. 

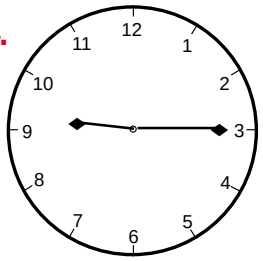
a quarter past five
five past six
ten past five

2. 

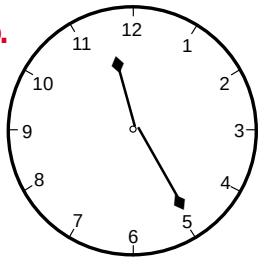
twenty past two
ten past four
half past ten

3. 

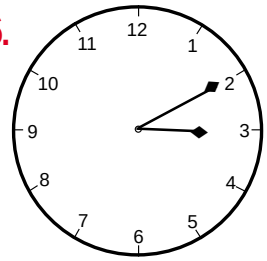
half past four
ten past eight
twenty past eight

4. 

ten past nine
a quarter past ten
a quarter past nine

5. 

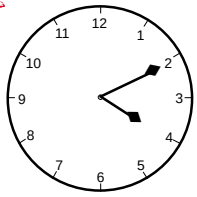
five past eleven
ten past ten
twenty five past eleven

6. 

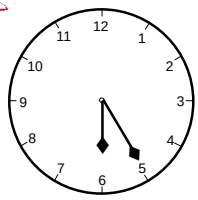
a quarter past six
ten past three
five past six

Write true or false for each time.

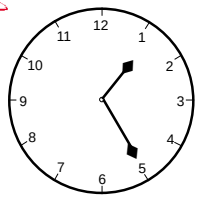
It's ten past four.

7. 

It's five past six.

8. 

It's twenty past one.

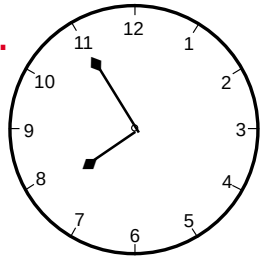
9. 

Write the correct time for any which were false.

Unit 14. Time

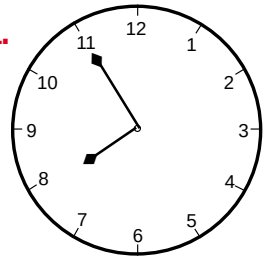
Talk about the questions with your teacher before you start writing.
Write the answers in your exercise book.

Example.

1. 

five to eight

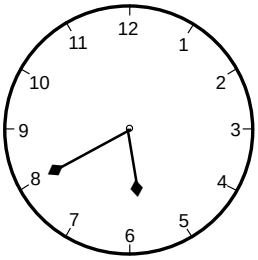
Write the correct time for each clock.

1. 

ten to eight

five to eight

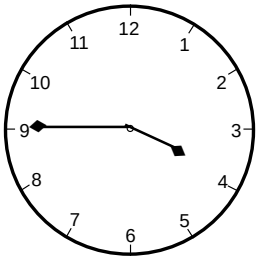
five to seven

2. 

half past eight

twenty to six

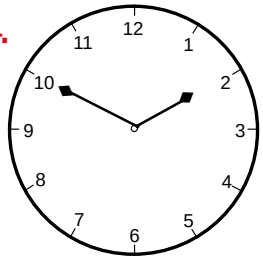
twenty past six

3. 

ten to four

twenty to four

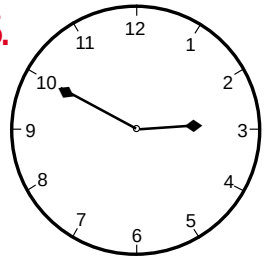
a quarter to four

4. 

five to two

ten to two

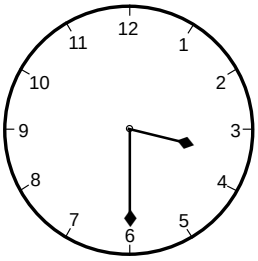
ten to ten

5. 

five to three

ten to three

a quarter past three

6. 

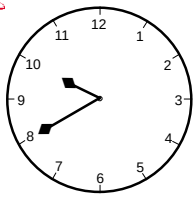
five to ten

half past three

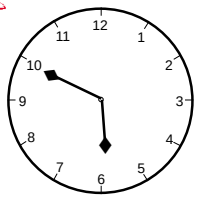
twenty five to five

Write true or false for each time.

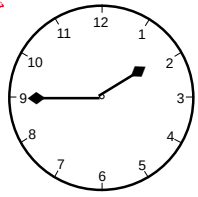
It's five to ten.

7. 

It's ten to six.

8. 

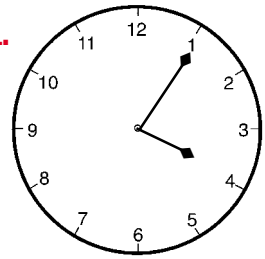
It's twenty to two.

9. 

Write the correct time for any which were false.

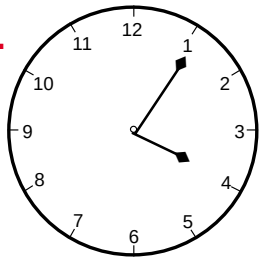
Talk about the questions with your teacher before you start writing.
Write the answers in your exercise book.

Example.

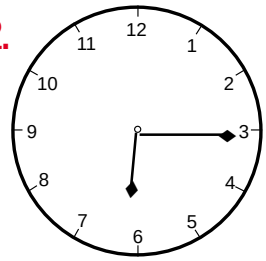
1. 

4:05

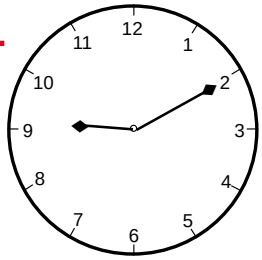
Write the correct time shown on each clock.

1. 

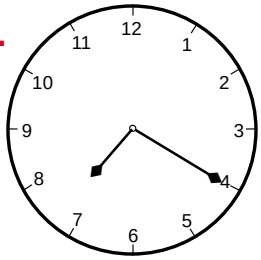
4:10
4:15
4:05

2. 

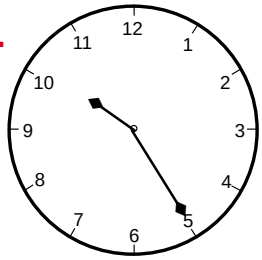
6:20
6:15
6:25

3. 

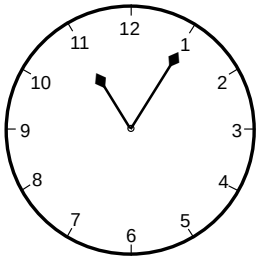
10:90
9:10
9:20

4. 

8:20
7:20
4:00

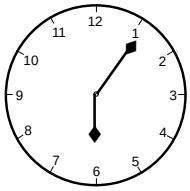
5. 

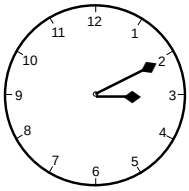
10:05
10:25
10:10

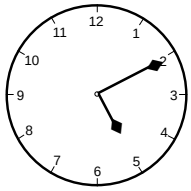
6. 

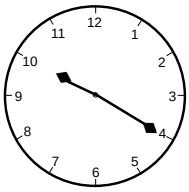
5:05
11:05
11:10

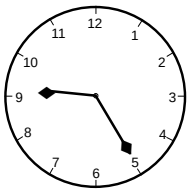
Write the time shown on each clock.

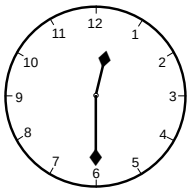
7. 

8. 

9. 

10. 

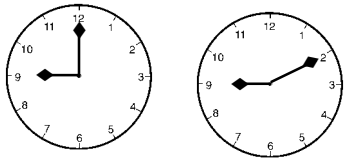
11. 

12. 

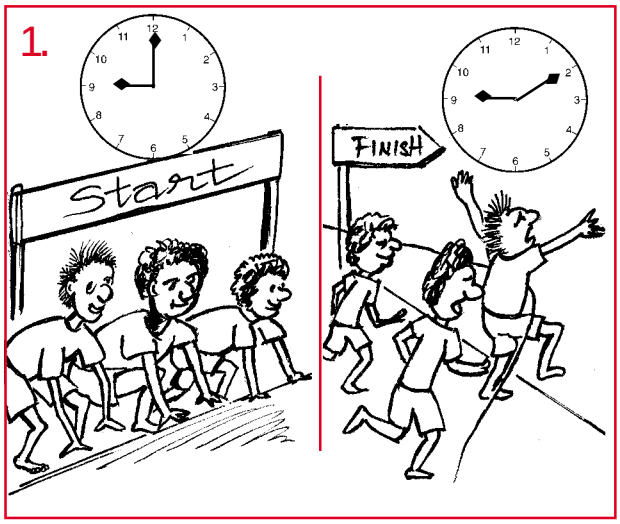
Unit 14. Time

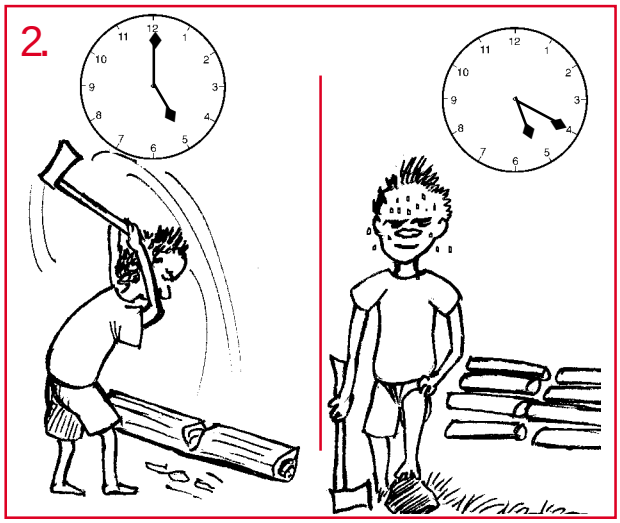
How many minutes does each activity take?
Talk about the pictures before you start writing.

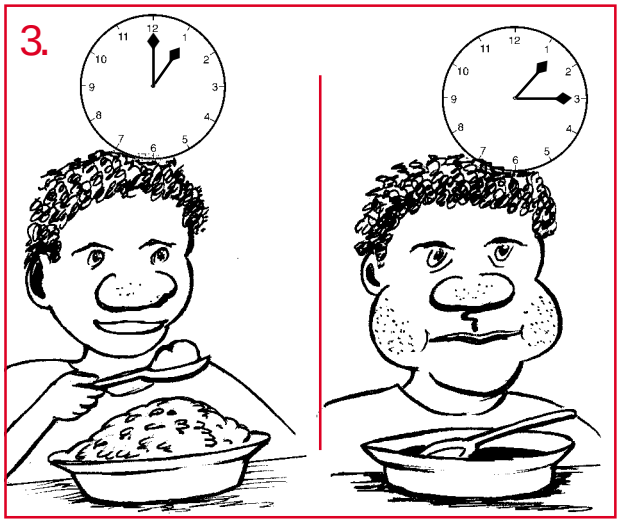
Example.

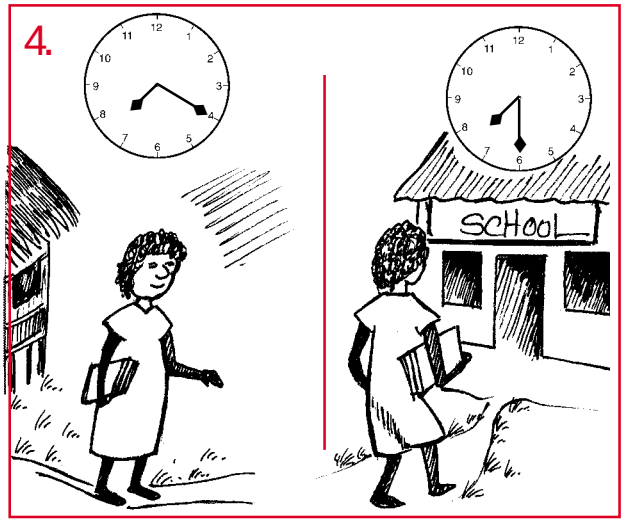
1. 

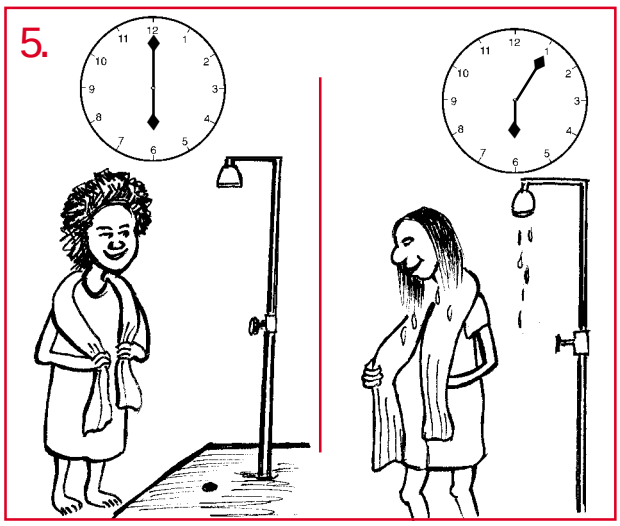
1. 10 minutes

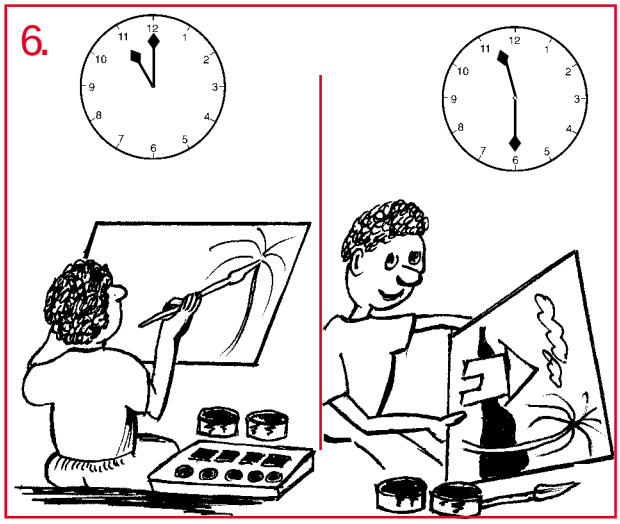
1. 

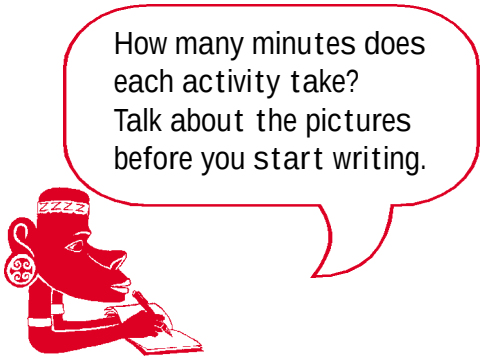
2. 

3. 

4. 

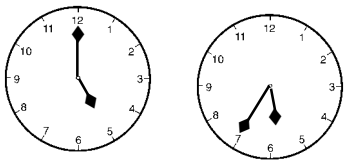
5. 

6. 



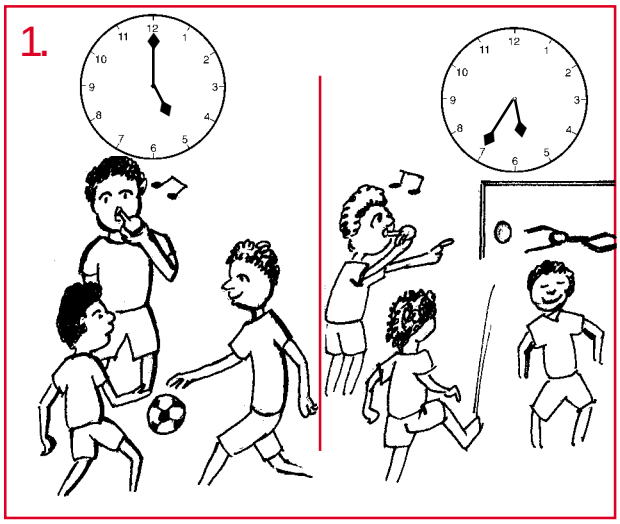
Example.

1.

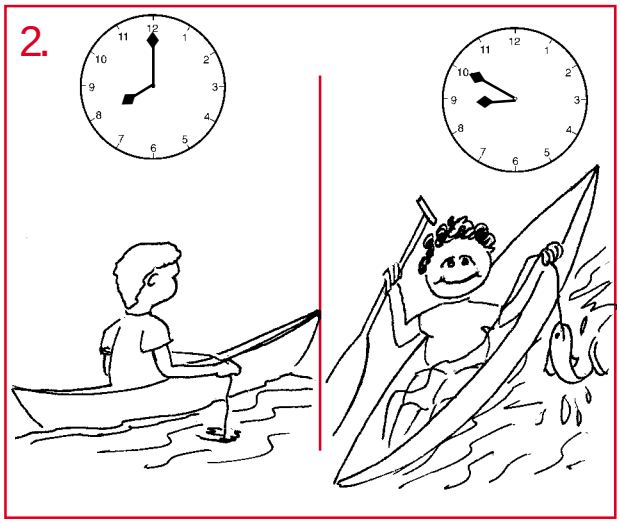


1. 45 minutes

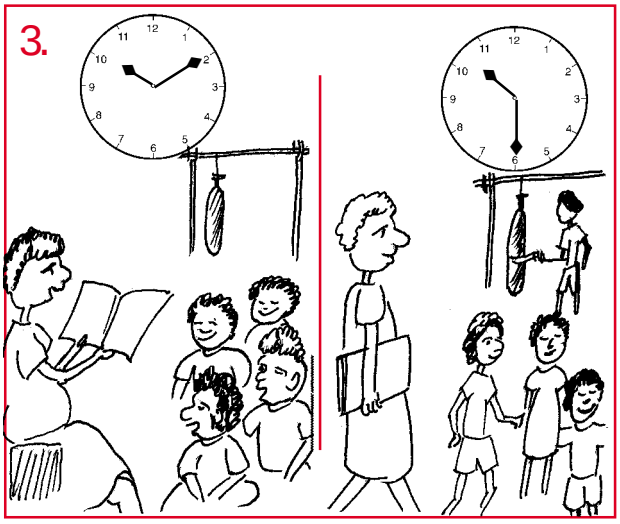
1.



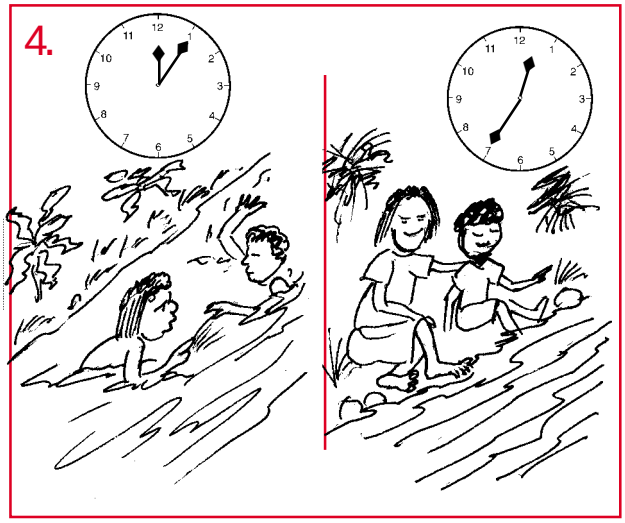
2.



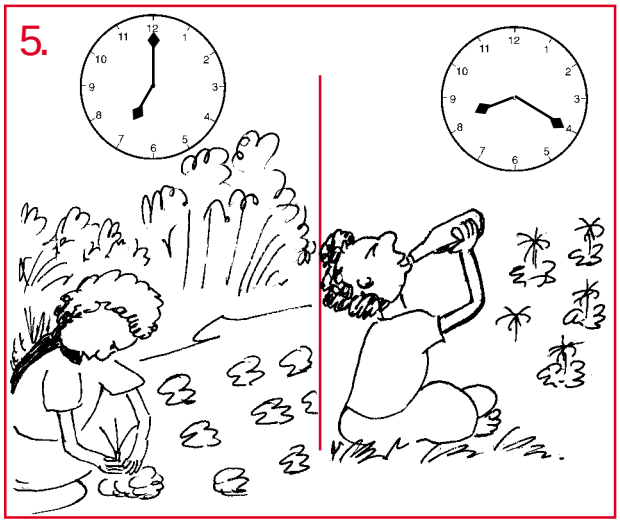
3.



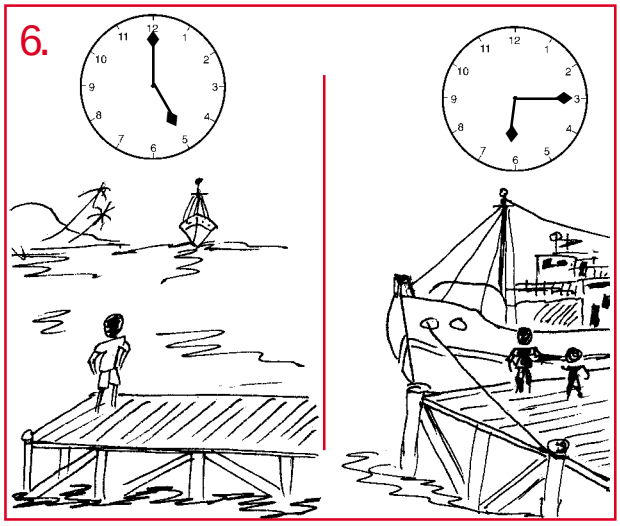
4.



5.



6.

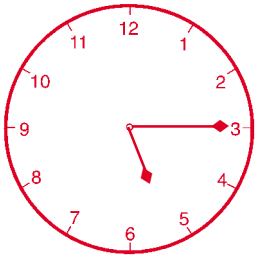


Unit 14. Time

Talk about the questions with your teacher before you start writing.
Write the answers in your exercise book.

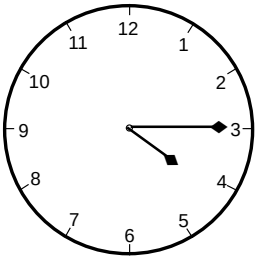
Example.

1.



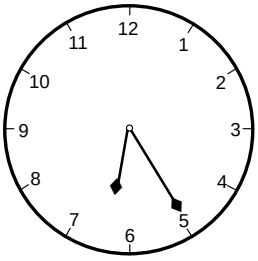
Draw clocks to show these times.

1.



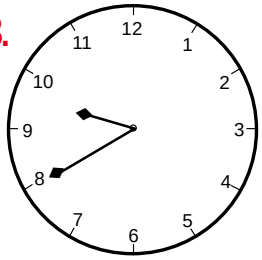
One hour later.

2.



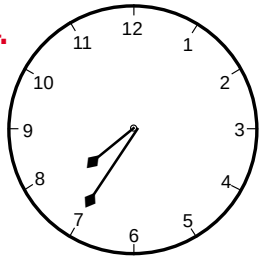
Ten minutes later

3.



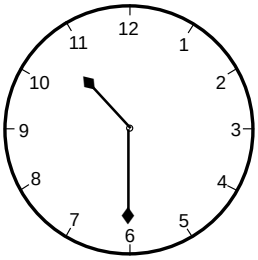
Twenty minutes later

4.



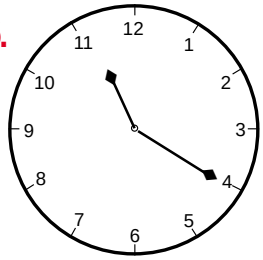
Fifteen minutes later.

5.



One hour before.

6.



Twenty five minutes before.

Draw clocks to show these times.

7. Half past twelve.

8. 3:30

9. 3:35

10. Five past six.

11. 6:55

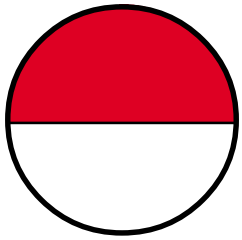
12. Ten to nine.

13. The time you woke up this morning.

14. The time it will be twenty minutes from now.

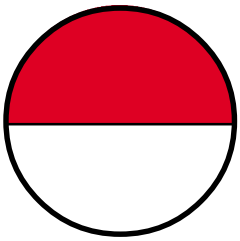
Talk about the fractions.
How many equal pieces are there?
How many are red?
Write the fractions in your exercise book.

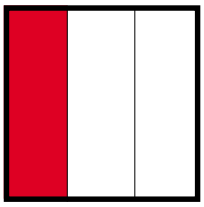
Example.

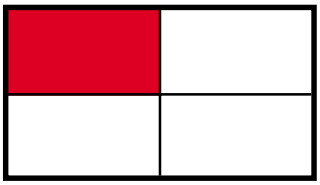
1. 

$\frac{1}{2}$

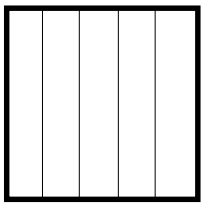
Write the fraction that is red.

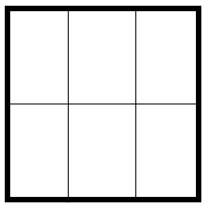
1. 

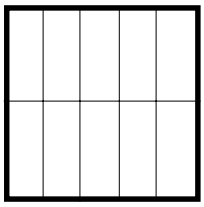
2. 

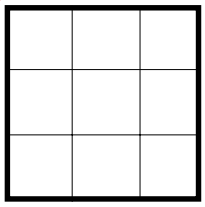
3. 

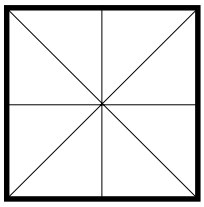
How many equal parts are there?

4. 

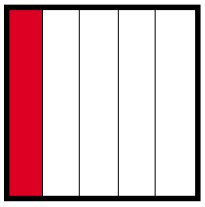
5. 

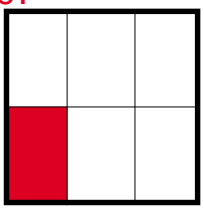
6. 

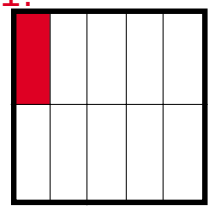
7. 

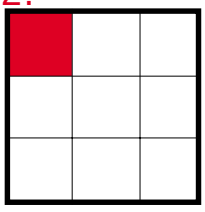
8. 

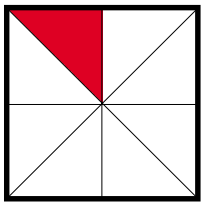
Write the fraction that is red.

9. 

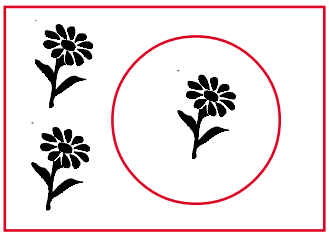
10. 

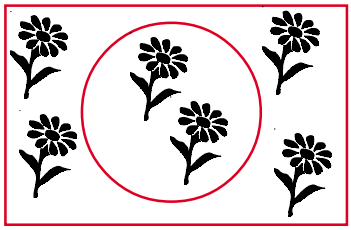
11. 

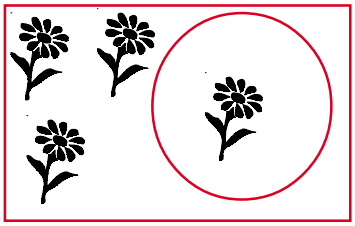
12. 

13. 

What fraction is in the circle?

14. 

15. 

16. 

Draw circles and colour these fractions.

17. $\frac{1}{2}$

18. $\frac{1}{4}$

19. $\frac{1}{5}$

20. $\frac{1}{3}$

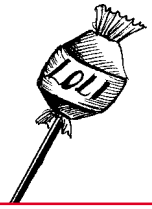
Unit 16. Money

Use coins to find the total.
Write the answers in your exercise book.
Remember that 100 cents is one dollar.

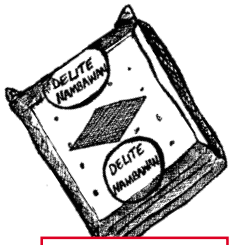
Example.

1. 70 cents

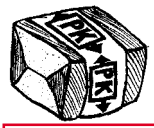
70 cents



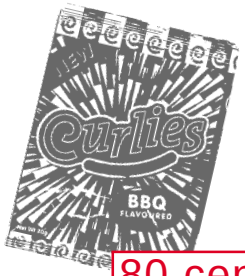
10 cents



60 cents



30 cents

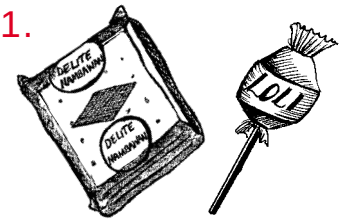


80 cents

20 cents

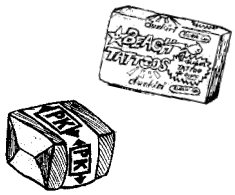
40 cents

1.

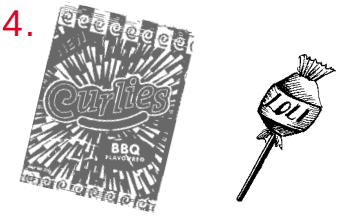


2.

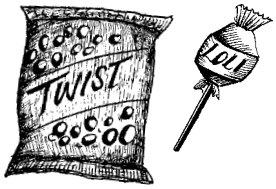
3.



4.



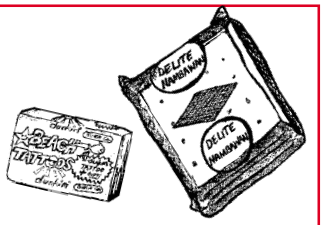
5.



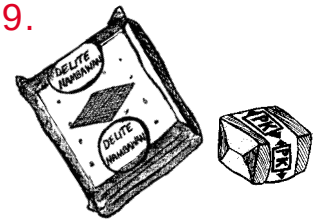
6.

7.

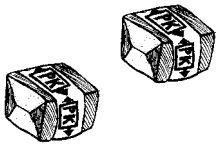
8.



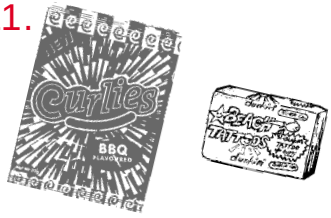
9.



10.



11.



12.

Use coins to find the difference.
Which costs more?
How much more?

Example.

1. The banana costs 10 cents more

70 cents

60 cents

30 cents

$1.00

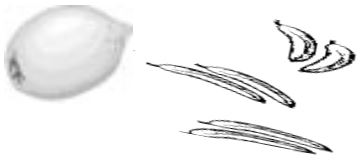
20 cents

40 cents

80 cents

10 cents

1.



2.

3.

4.

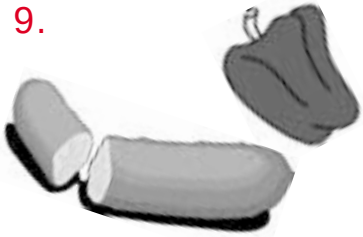
5.

6.

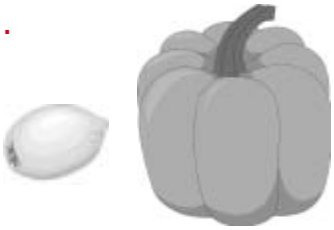
7.

8.

9.



10.



11.

12.

Unit 16. Money

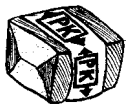
Find how much change there should be. Count on in tens. One dollar is 100 cents.

Example.

1. 30, 40, 50.
20 cents change

You have

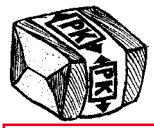
You buy



70 cents

10 cents

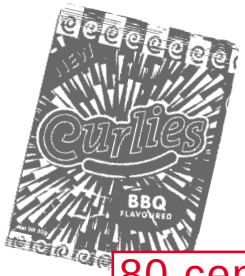
60 cents



30 cents

20 cents

40 cents



80 cents

1.
You have

You buy

2.
You have

You buy

3.
You have

You buy

4.
You have

You buy

5.
You have

You buy

6.
You have

You buy

7.
You have

You buy

8.
You have

You buy

9.
You have

You buy

10.
You have

You buy

11.
You have

You buy

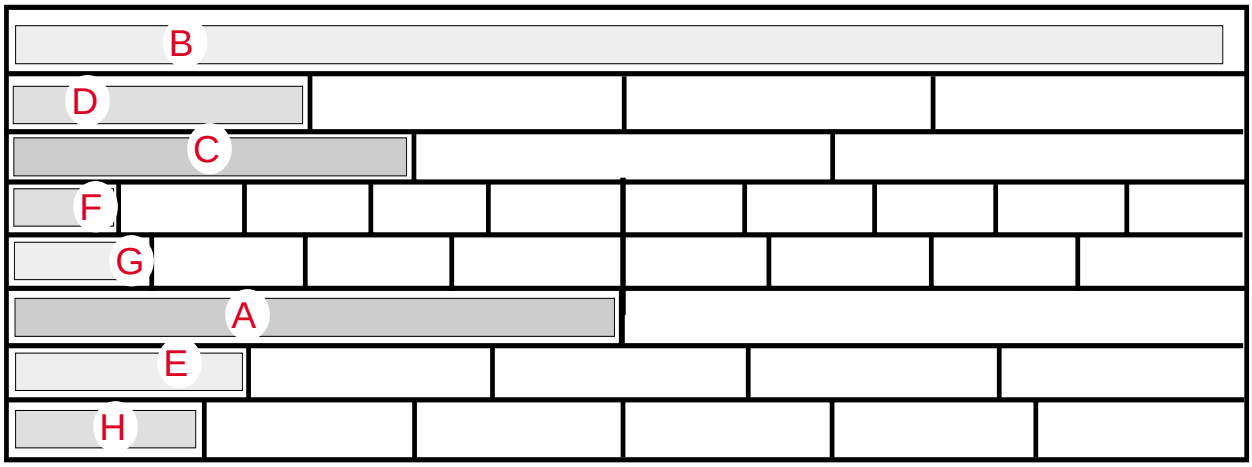
12.
You have

You buy

Talk about the fraction chart below.
What fraction is shown by each letter?
Write the fraction in your exercise book.

Example.

1. A = $\frac{1}{2}$



1. A = ☐ 2. B = ☐ 3. C = ☐ 4. D = ☐

5. E = ☐ 6. F = ☐ 7. G = ☐ 8. H = ☐

Write the fraction which is bigger.

9. $\frac{1}{2}$ $\frac{1}{4}$

10. $\frac{1}{5}$ $\frac{1}{2}$

11. $\frac{1}{6}$ $\frac{1}{4}$

12. $\frac{1}{8}$ $\frac{1}{6}$

13. $\frac{1}{2}$ $\frac{1}{8}$

14. $\frac{1}{10}$ $\frac{1}{6}$

15. $\frac{1}{5}$ $\frac{1}{6}$

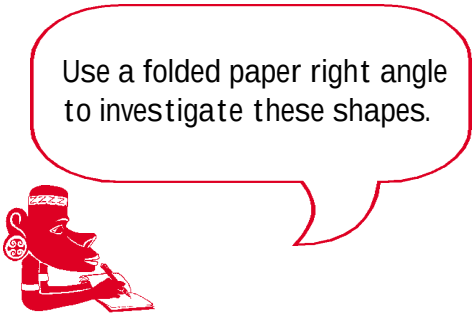
16. $\frac{1}{10}$ $\frac{1}{3}$

Write the fraction which is biggest.

17. $\frac{1}{8}$ $\frac{1}{4}$ $\frac{1}{3}$ $\frac{1}{6}$

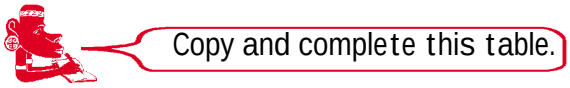
18. $\frac{1}{3}$ $\frac{1}{5}$ $\frac{1}{10}$ $\frac{1}{2}$

Unit 18. Right angles

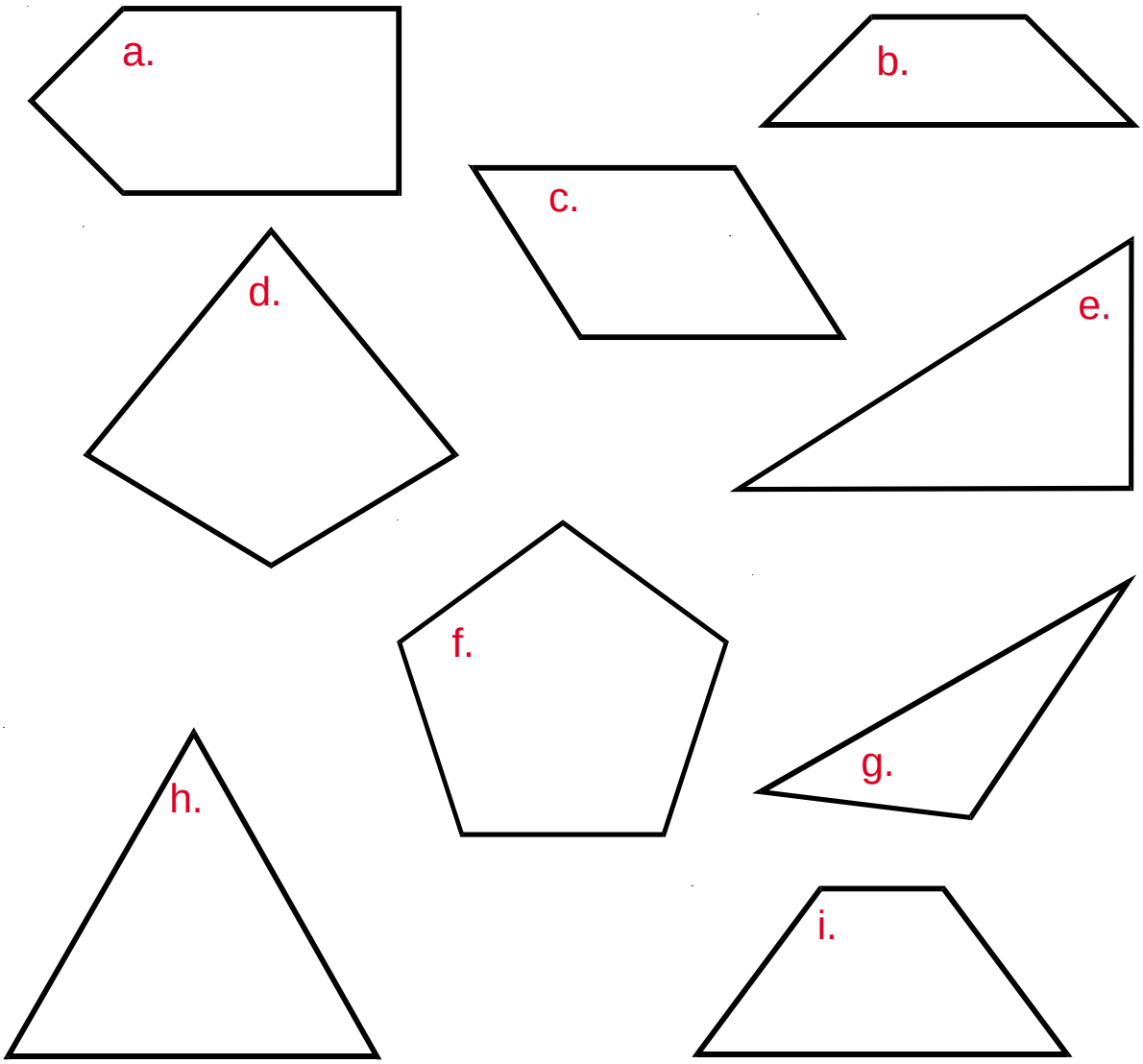


Example.

shape	number of sides	number of angles	number of right angles
a.	5	5	3
b.			



shape	number of sides	number of angles	number of right angles
a.			
b.			



Talk about the pictures and sentences below. Check if the sentences are true or false by investigating the real objects.

Example.

1.

The capacity is 300 ml

1. False. The weight is 100 grams

Write true or false for each picture.

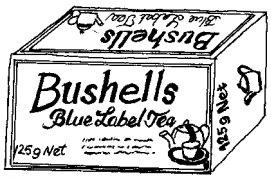
1.

The capacity is 300 ml

2.

The weight is 200 grams

3.



The capacity is 500 ml

4.

The weight is 85 grams

5.

The capacity is 150 ml

6.

The weight is 200 grams

7.

The capacity is 350 ml

8.

The weight is 400 grams

9.

The weight is 180 grams

10.

The capacity is 900 ml

11.

The capacity is 20 litres

12.

The weight is 1000 grams

Nguzu Nguzu Mathematics

Standard Three