

Surname	Centre Number	Candidate Number
Other Names		4



ENTRY LEVEL

0736/01



MATHEMATICS
Final Examination

FRIDAY, 17 MARCH 2017 – MORNING

1 hour 15 minutes

ADDITIONAL MATERIALS

In addition to this examination paper, you will need:

- a calculator;
- a ruler.

For Examiner's use only		
TOPIC AREA	Maximum Mark	Mark Awarded
NUMBER & ALGEBRA	27	
SHAPE, SPACE & MEASURES	18	
HANDLING DATA	18	
TOTAL	63	

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen.

Write your name, centre number and candidate number in the spaces at the top of this page.

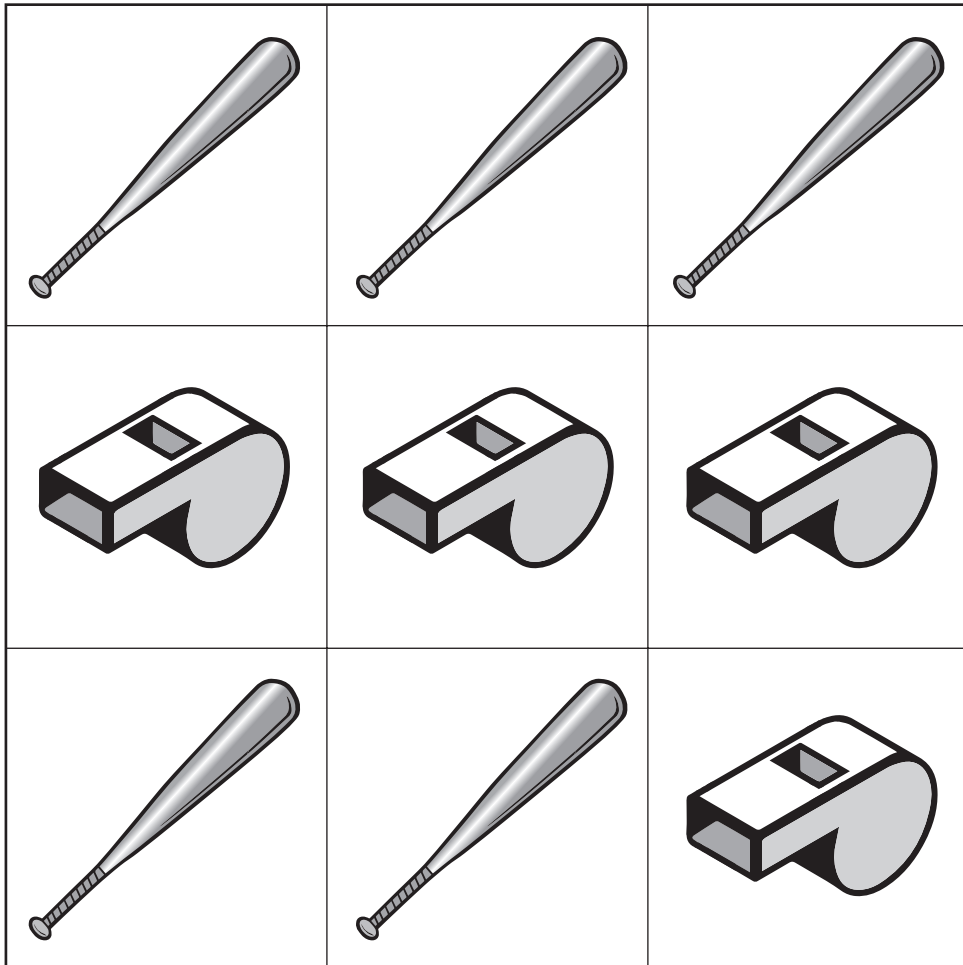
Answer **all** questions in the spaces provided in this booklet.

All workings must be shown.

INFORMATION FOR CANDIDATES

The number of marks is given in brackets at the end of each question or part-question.

1. Here is a picture of some bats and whistles.



(a) How many bats are there?

[1]

.....

Answer:

(b) How many whistles are there?

[1]

.....

Answer:

(c) How many more bats are there than whistles?

[1]

.....

.....

Answer:

2. Arrange the number cards in order starting with the **largest**.

[1]

Examiner
only

585

620

734

743

605

98

Answer:

--	--	--	--	--	--

3. Calculate each of the following.

(a) $842 - 45$

[1]

.....
.....
.....
.....

Answer:

(b) 8×52

[1]

.....
.....
.....
.....

Answer:

(c) $5 + 6 + 3 + 5 + 7 + 4$

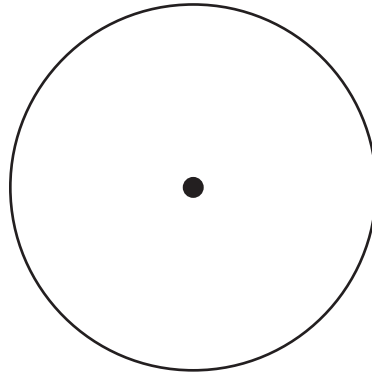
[1]

.....
.....
.....
.....

Answer:

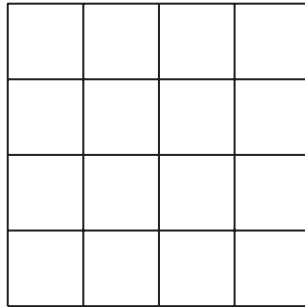
4. (a) Shade $\frac{1}{4}$ of the circle.

[1]



- (b) Shade $\frac{1}{2}$ of the squares.

[1]



- (c) Shade 25% of the rectangle.

[1]



5. (a) Write, in figures, the number **five thousand and twelve**. [1]

.....

- (b) Write, in words, the number **6030**. [1]

.....

6. Write these numbers in order of size, **starting with the smallest**. [1]

14 -12 2 1 -10

.....

Answer:

7. Calculate $1 - \frac{2}{3}$ [1]

.....

.....

.....

Answer:

8. Complete each of the following calculations. [3]

$$5 \times \dots\dots\dots = 35$$

$$\dots\dots\dots \times 10 = 60$$

$$7 \times \dots\dots\dots = 77$$

9. (a) Rod's calculator shows 7652.



Tom's calculator shows 7452.



What must Rod subtract from his number to get the number shown on Tom's calculator? [1]

Answer:

- (b) Carys's calculator shows 658.



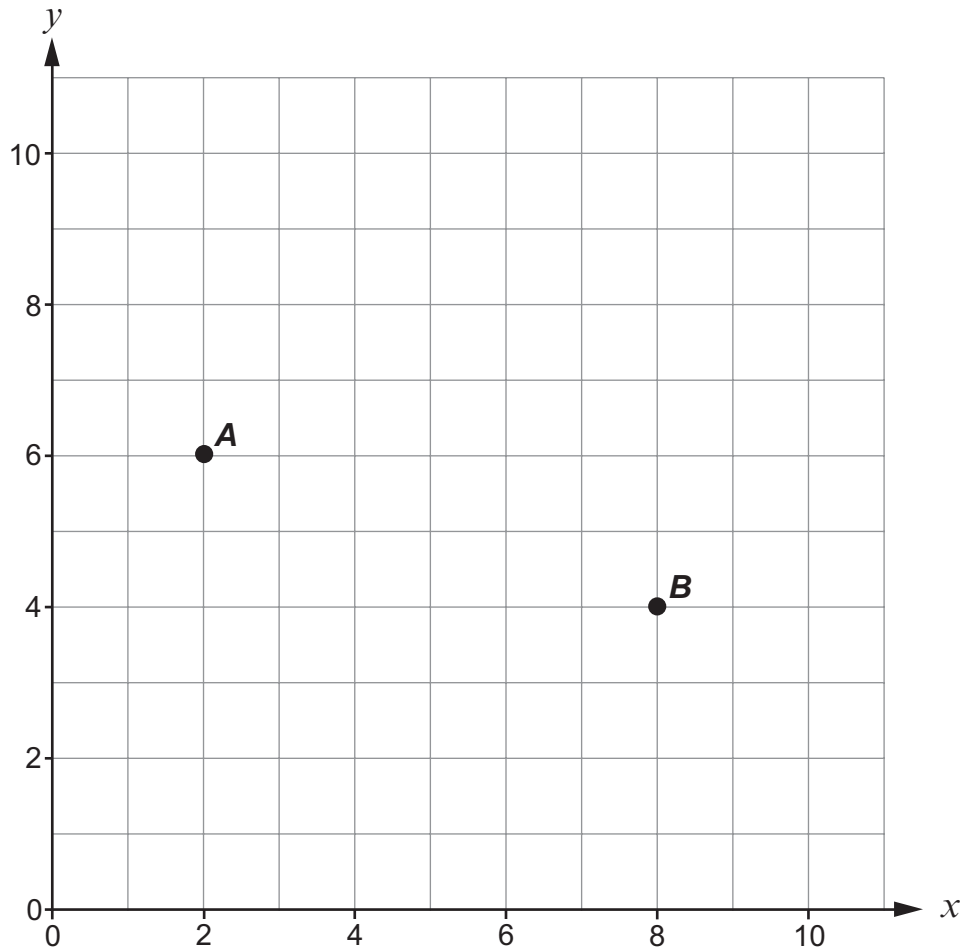
Anna's calculator shows 768.



What must Carys add to her number to get the number shown on Anna's calculator? [1]

Answer:

10.



(a) Write down the coordinates of point **A**. [1]

(..... ,)

(b) Write down the coordinates of point **B**. [1]

(..... ,)

(c) Plot point **C** which has the position (6, 10). [1]

11. A single rose is sold in a shop for £2.25.



(a) Chloe buys 4 roses.

What is the total cost of the 4 roses?

[1]

.....

.....

.....

.....

Answer:

(b) How many roses can you buy for £20?

[1]

.....

.....

.....

.....

Answer:

(c) Dilys uses a £10 note to pay for 2 roses.
How much change should Dilys get?

[1]

.....

.....

.....

.....

Answer:

12. Write down the next number in each of these number patterns.

(a) 36, 30, 24, 18,

[1]

.....

Answer:

(b) 96, 48, 24, 12,

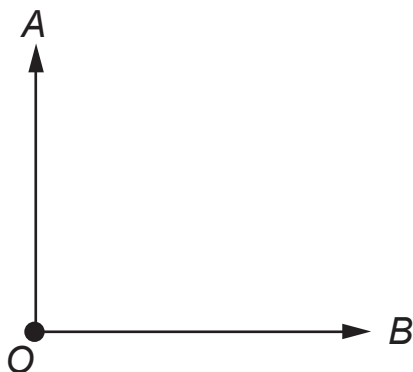
[1]

.....

Answer:

27

13. The pointer is fixed at O.



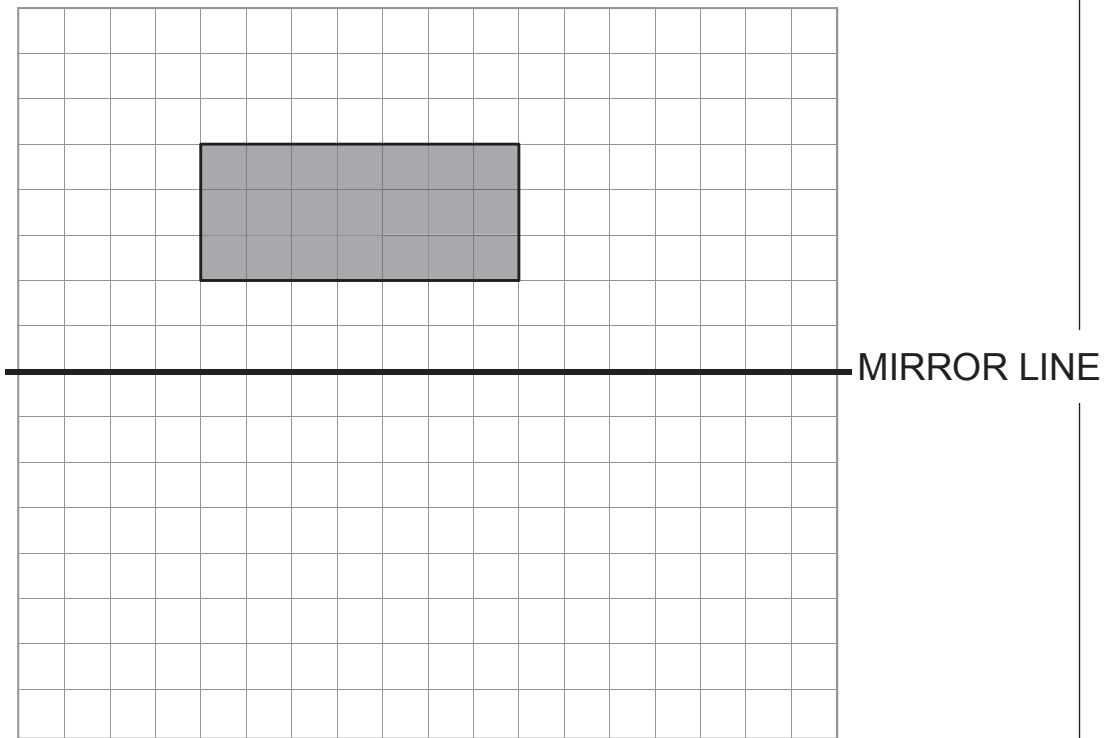
The pointer starts in position OB and is moved anticlockwise to position OA .
Through how many right angles has the pointer moved? [1]

Number of right angles:

14. Draw the **reflection** of each of these shapes in the mirror lines shown.

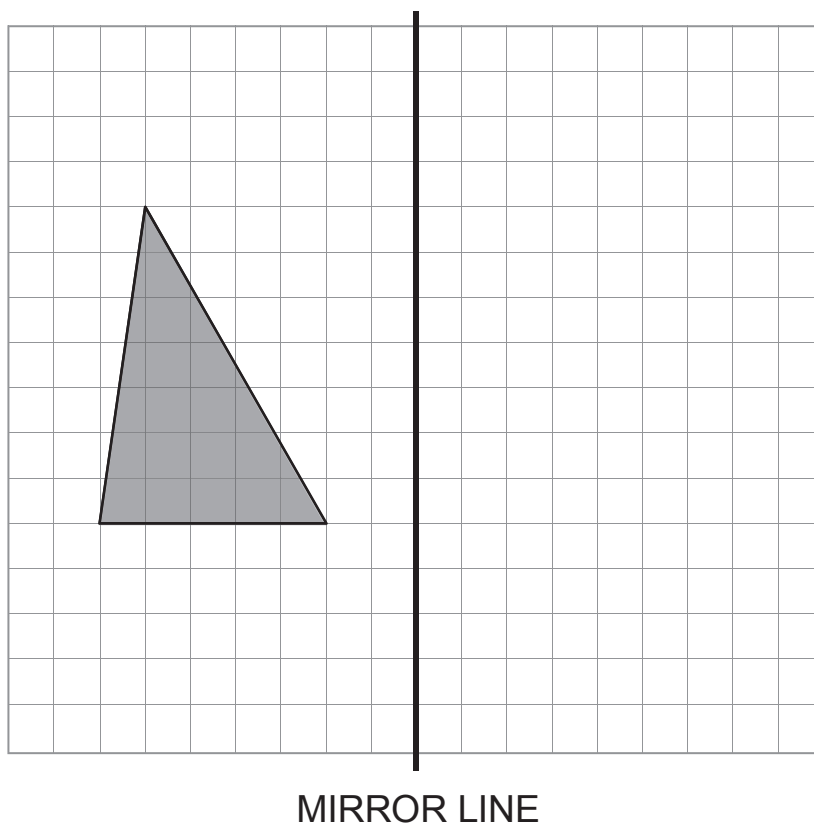
(a)

[1]



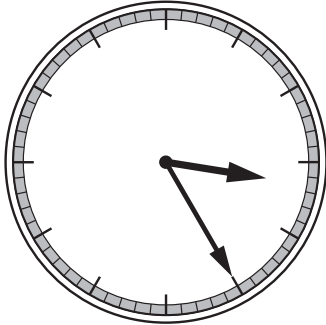
(b)

[1]

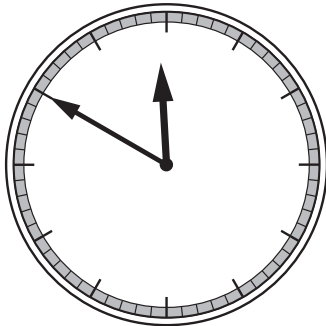


15. The clocks below all show times in the **morning**.
Write the **time** using **a.m.** or **p.m.**

[2]



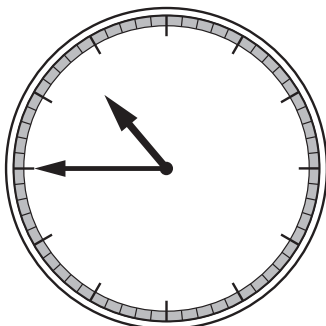
.....



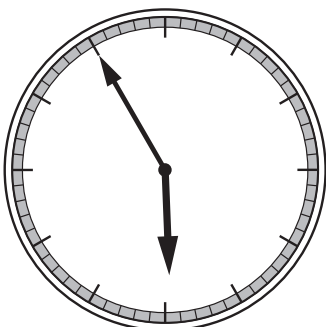
.....

16. The clocks below all show times in the **afternoon or evening**.
Write the time using the **24 hour** clock.

[2]

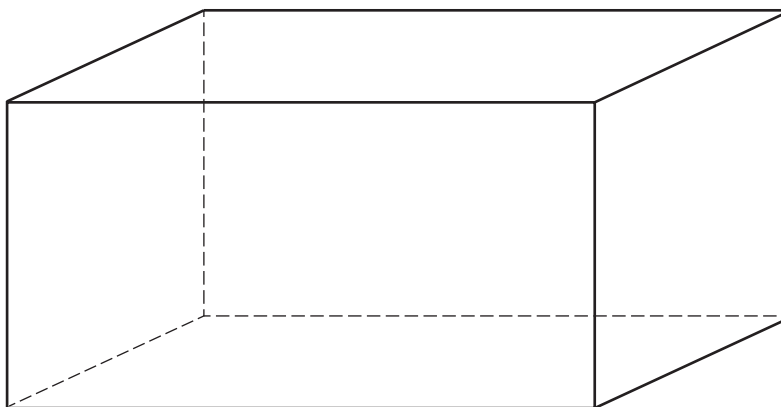


.....



.....

17. The diagram shows a cuboid.



(a) How many **vertices** does the cuboid have? [1]

Answer

(b) How many **faces** does the cuboid have? [1]

Answer

18. North is in the opposite direction to South.

Complete the following sentences.

[3]

East is in the opposite direction to

North-East is in the opposite direction to

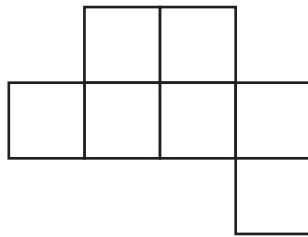
South-East is in the opposite direction to

19. The square below has an area of 1 cm^2 .
The length and width of the square are both 1 cm .



- (a) Find the perimeter of this shape.

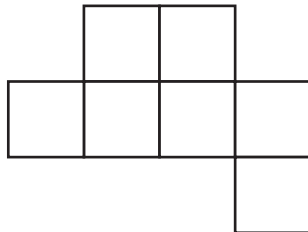
[1]



Perimeter: cm

- (b) Find the area of the shape.

[1]



Area: cm^2

20. This is part of a train departure board at a station.

Departs	To
08:34	<i>Abermawr</i>
08:43	<i>Benfield</i>
08:59	<i>Renwich</i>
09:05	<i>Benfield</i>
09:15	<i>Northway</i>
09:32	<i>Drystone</i>

(a) There are two trains to Benfield.
What are the departure times for these two trains? [1]

.....

 and

(b) How many minutes after the train to Abermawr does the train to Drystone leave? [1]

.....

 Answer:

(c) It is announced that the Northway train will depart 25 minutes late.
At what time will the train to Northway now depart? [1]

.....

 Departs:

(d) You arrive at the train station and look at the board.
It is 08:46.

Where could you be travelling to if you catch the next train?

[1]

.....

.....

The next train is going to

18

21. A coin is thrown 25 times.
The pictures show how it landed each time.



Complete the chart below.

[3]

	Tally	Number of times
Heads		
Tails		

22. A bowl contains many grass seeds with a few wild flower seeds.
For every 99 grass seeds there is 1 wild flower seed.



Two seeds are chosen at random from the bowl.

Complete each of the sentences using one of the words.

[3]

certain

likely

unlikely

impossible

It is that the two seeds are both grass seeds.

It is that the two seeds are both wild flower seeds.

It is that both the seeds are pumpkin seeds.

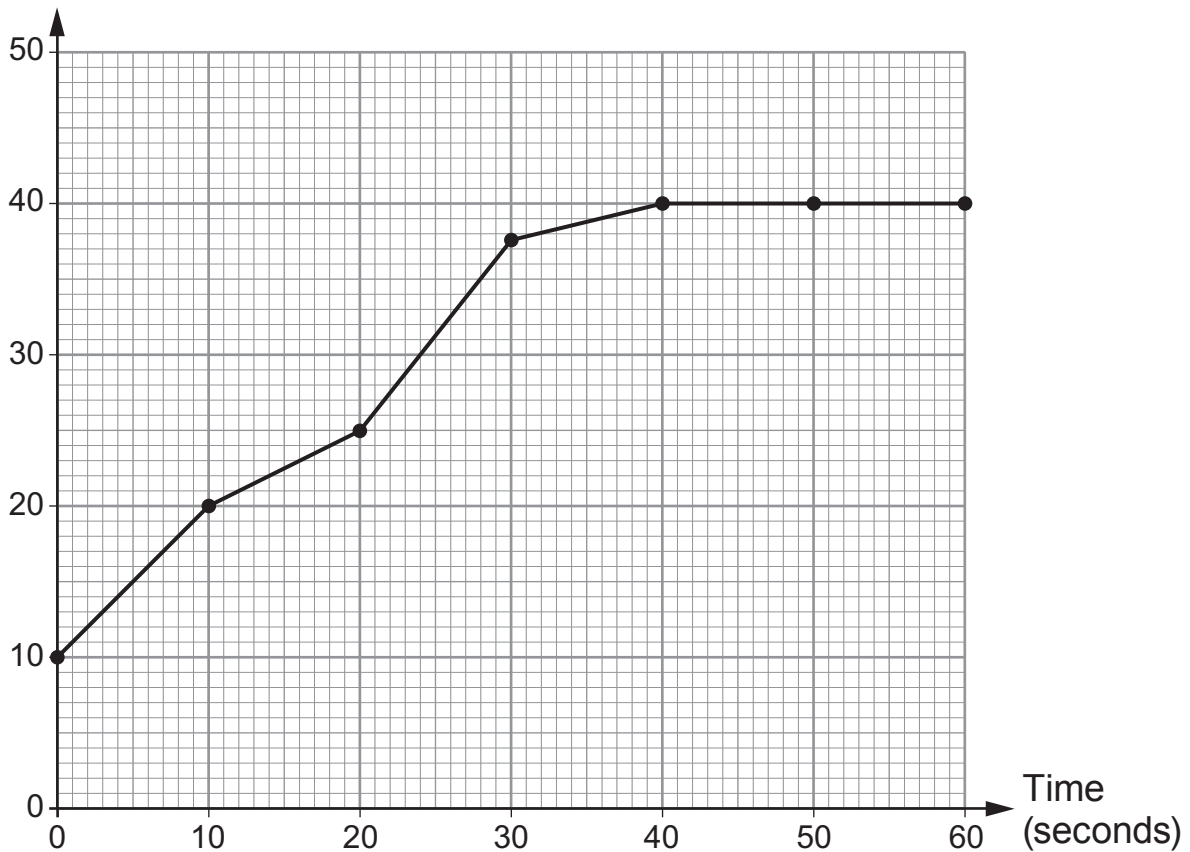
23. Sara is filling a plant pot with soil.

Greg measures the depth of soil in a large plant pot as Sara fills it.

He records the depth of the soil every 10 seconds.

He presents his results in a graph.

Depth of soil (cm)



(a) What was the depth of the soil in the plant pot at the start? [1]

.....
 Answer: cm

(b) How many seconds did it take to fill to a depth of 25 cm? [1]

.....
 Answer: seconds

(c) What do you think the depth of soil might be when the large plant pot is full?

Why do you think this from the graph?

[1]

.....

.....

.....

24. Gareth has lots of coins in his pocket.



(a) How much money does Gareth have in his pocket?

[1]

Answer:

(b) Complete the table to show the number of coins Gareth has in his pocket.

[2]

Value of the coin	Number of coins
1p	
2p	
5p	
10p	
20p	
50p	2
£1	2

- (c) Gareth pays for a banana.
The banana costs 46p.
Gareth pays with the exact money.
Which coins could Gareth use to pay for his banana?

[1]

.....

.....

Coins used:

- (d) Write down a different way that Gareth could pay 46p exactly.

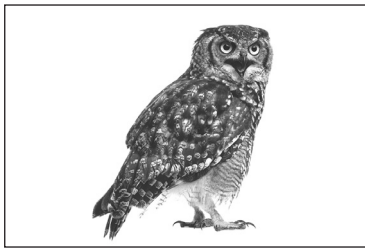
[1]

.....

.....

Coins used:

25. Sort the following into two groups.



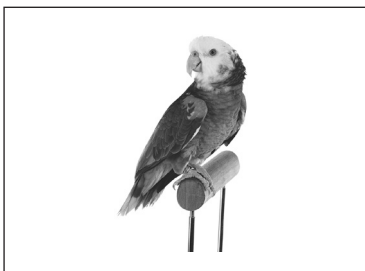
Picture 1



Picture 2



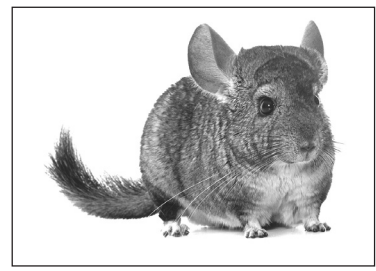
Picture 3



Picture 4



Picture 5

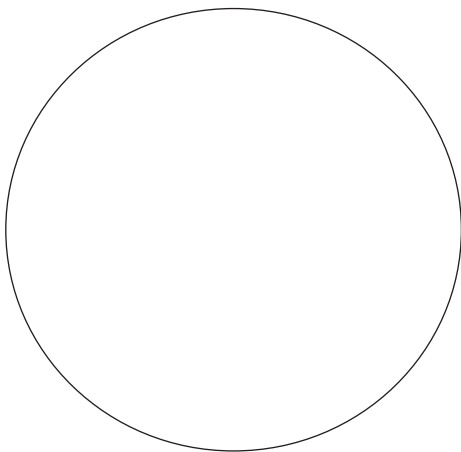


Picture 6

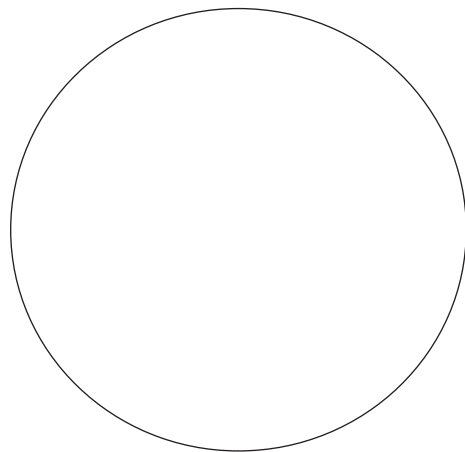
Put the picture number in the groups.

[1]

GROUP 1



GROUP 2



How did you choose your groups?

[1]

.....

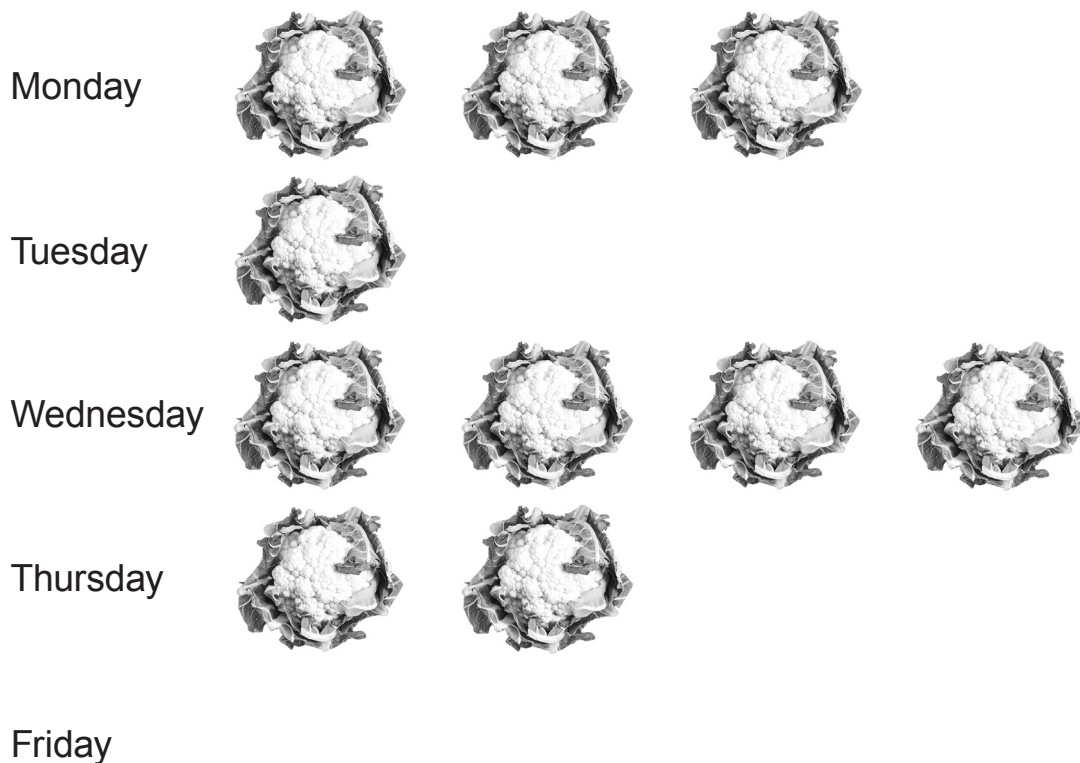
.....


.....

.....

26. The shop sells cauliflowers.

The sales of cauliflowers for Monday, Tuesday, Wednesday and Thursday in one week are shown below.



Key:  = 6 cauliflowers

(a) How many cauliflowers were sold altogether from Monday to Thursday? [1]

.....

Answer: cauliflowers

(b) 9 cauliflowers were sold on Friday.
 Complete the pictogram to show this information. [1]

18

END OF PAPER

BLANK PAGE

BLANK PAGE