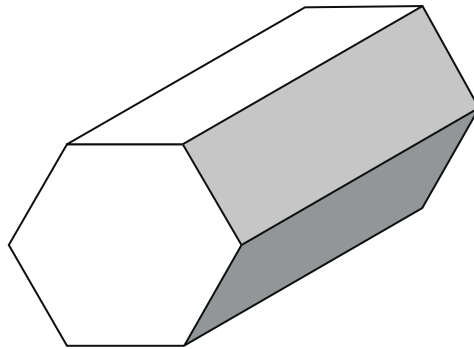


1

Here is a drawing of a hexagonal prism.



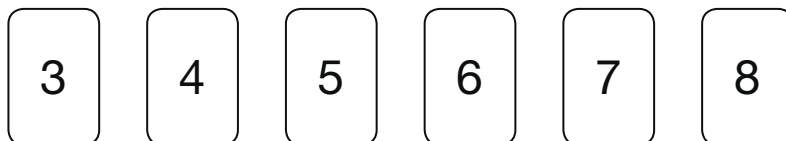
How many **faces** does the prism have?

1 mark



2

Here are six number cards.

Use **all six** cards to complete the three multiplications below.

$$24 = \square \times \square$$

$$28 = \square \times \square$$

$$30 = \square \times \square$$

1 mark

A simple line drawing of a banana, showing its characteristic curved shape and a small stem at the top. The drawing is done in a minimalist style with black outlines and some light shading to indicate its form.



What is her change?

Show
your
method



2 marks



4

Draw **four** lines to match each fraction to its equivalent decimal.

$$\frac{1}{2}$$

$$\frac{3}{10}$$

$$\frac{3}{4}$$

$$\frac{3}{100}$$

0.3

0.5

0.8

0.03

0.25

0.75

2 marks

K 0 0 0 8 0 A 0 7 2 4

5

Some children vote for their favourite ice-cream flavour.

Ice-cream flavour	Number of children
vanilla	87
chocolate	154
strawberry	?
mint	38
Total	402

How many children vote for **strawberry**?

Show
your
method

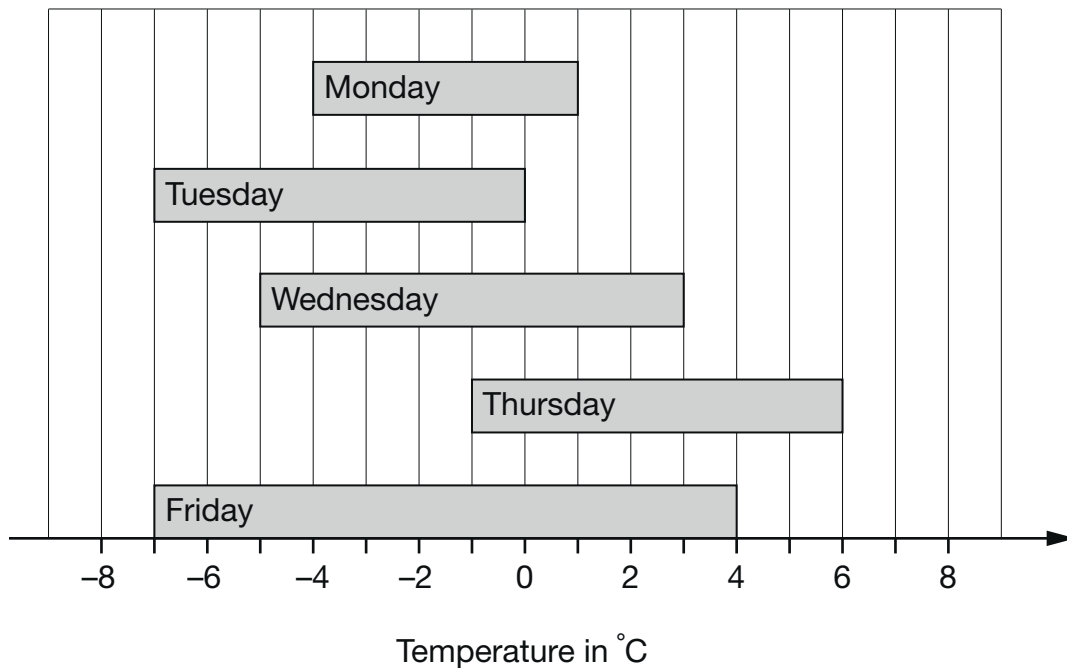
children

2 marks



6

This chart shows the range of temperatures each day during one week from Monday to Friday.



What was the **lowest** temperature?

 °C

1 mark

What was the difference between the highest and lowest temperatures on **Wednesday**?

 °C

1 mark



K 0 0 0 8 0 A 0 9 2 4

7

One Saturday afternoon, a total of 234,869 people attended three rugby matches.

- 80,978 people attended match 1
- 72,319 people attended match 2

How many people attended match 3?

Show
your
method

2 marks



8

7,546

Round this number:

to the nearest 1,000

to the nearest 100

to the nearest 10

2 marks

9

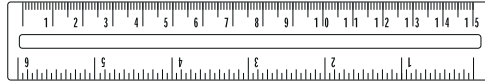
Complete the calculation.

$$1,000 \times 416 = 10 \times$$

1 mark



K 0 0 0 8 0 A 0 1 1 2 4



Show
your
method

A 20x10 grid with a rectangle in the bottom right corner. The rectangle is 5 units wide and 2 units high, spanning from column 15 to column 20 and row 8 to row 10. The grid is composed of 20 columns and 10 rows. The rectangle is outlined in black.

Page 12 of 24



11

Ally chooses a whole number.

When she multiplies her number by **4**, the answer is **less than 100**

When she multiplies her number by **5**, the answer is **greater than 100**

Write a number that Ally could have started with.

1 mark



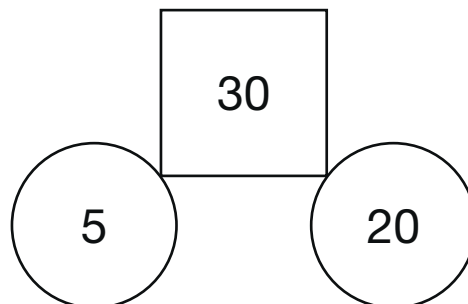
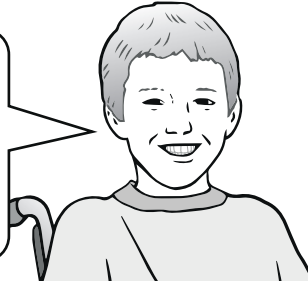
K 0 0 0 8 0 A 0 1 3 2 4

12

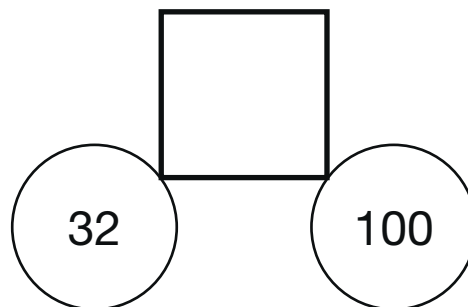
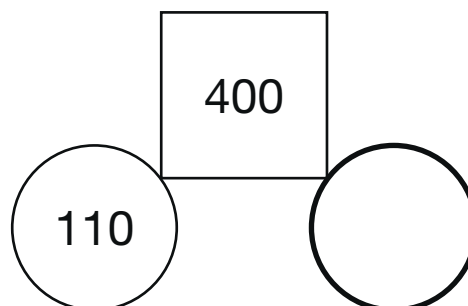
William says the rule for this diagram.

Find the difference between
the numbers in the circles.

Double this to make the
number in the square.



Use the same rule to write the missing numbers below.

1 mark1 mark

13Write the missing fraction to make this **addition** correct.

$$\frac{2}{3} + \boxed{} = \frac{5}{6}$$

1 mark**14**

Jack hires a hall for a party.

This formula is used to work out the total cost.

Total cost = £15 booking fee + £12.50 per hour

What is the total cost of hiring the hall from 6pm until 11pm?

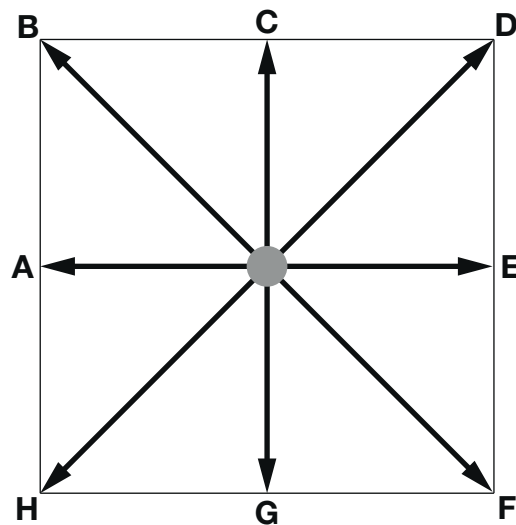
£

1 mark

K 0 0 0 8 0 A 0 1 5 2 4

15

Stefan stands in the centre of this square.



Not actual size

Stefan is facing towards **F**.

He turns **anti-clockwise** to face **D**.

What **angle** does Stefan turn through?

degrees

1 mark

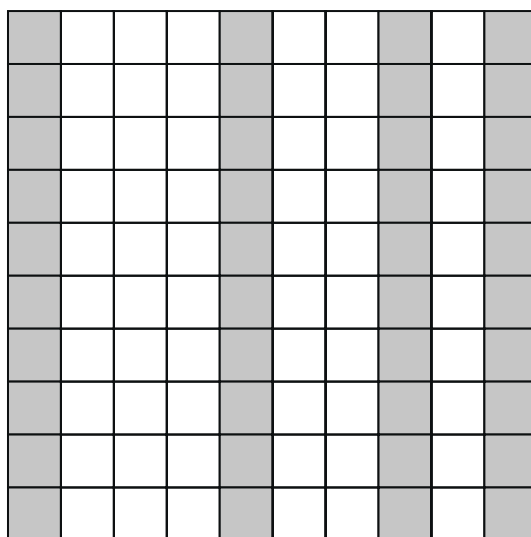
Stefan is now facing towards **D**.

He turns **3 right angles clockwise**.

Write the **letter** he faces after the turn.

1 mark



16Part of this 10×10 grid is shaded.

Tick the fractions that represent the shaded part of the grid.

$$\frac{1}{4} \quad \square$$

$$\frac{2}{5} \quad \square$$

$$\frac{4}{10} \quad \square$$

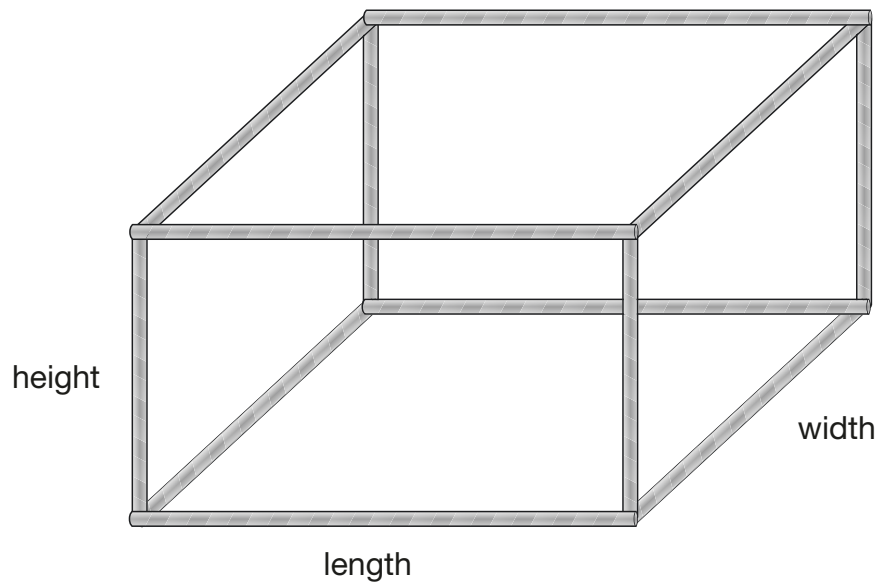
$$\frac{6}{10} \quad \square$$

$$\frac{40}{100} \quad \square$$

2 marks

17

Kim makes a cuboid model using straws.



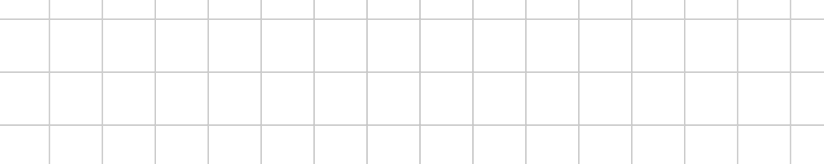
She uses straws that are 7.5 cm long for the height.

She uses straws that are 11 cm long for the length.

She uses straws that are 8.5 cm long for the width.

What is the **total** length of all the straws in her model?

Show
your
method

A blank grid with a 1 cm scale bar. The grid is composed of small squares. A scale bar is located in the bottom right corner, consisting of a horizontal rectangle with the label "1 cm" inside it.

2 marks



What is the **reduced price**?

Show
your
method

£

2 marks



19

Jack says,

When you square a prime number, the answer has only two factors.



Explain why Jack is **not** correct.

A large, empty, cloud-shaped box with a scalloped border, intended for the student to write their explanation.

1 mark



20

This table shows how many people finished the New York Marathon in each of the first four decades it was held.

New York Marathon	
Decade	Total number of people who finished
1st decade	24,863
2nd decade	170,932
3rd decade	282,420
4th decade	350,824

What is the mean number of people who finished the marathon per decade? Round your answer to the **nearest hundred**.

Show
your
method

people

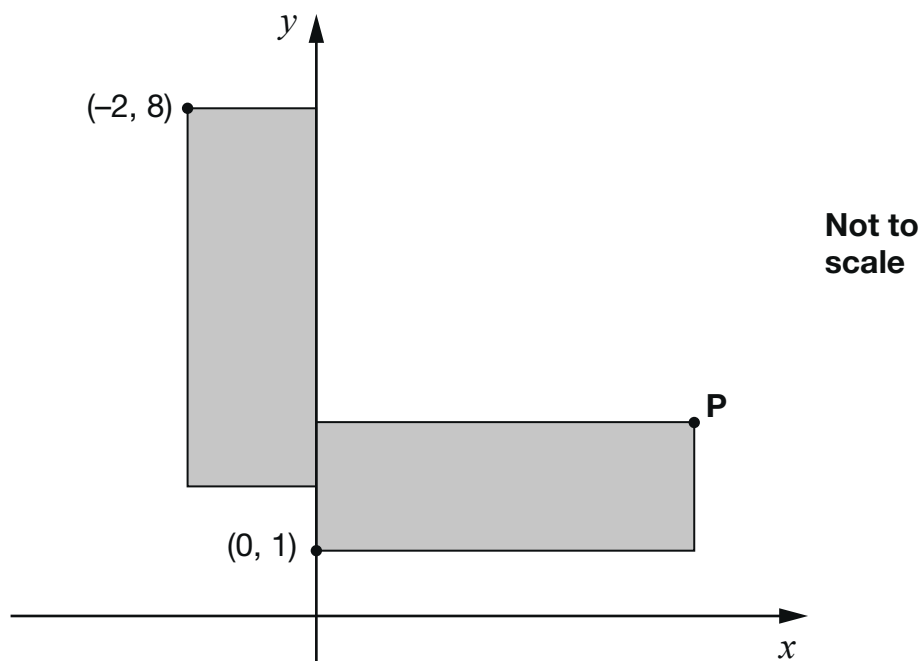
3 marks



21

These two rectangles are identical.

The length of each rectangle is **three times** its width.



What are the coordinates of point **P**?

(,)

1 mark

