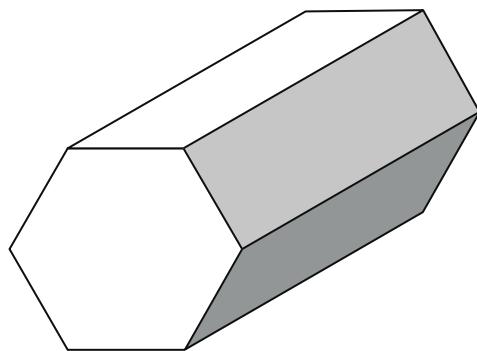


1

Here is a drawing of a hexagonal prism.

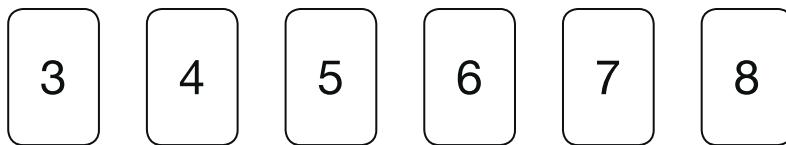


How many **faces** does the prism have?

1 mark

2

Here are six number cards.



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

$$24 = \boxed{} \times \boxed{}$$

$$28 = \boxed{} \times \boxed{}$$

$$30 = \boxed{} \times \boxed{}$$

1 mark

3

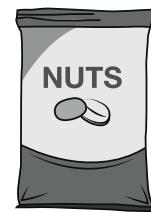
Olivia buys a banana, an apple and a bag of nuts.



30p



45p



60p

She pays with three 50p coins.

What is her change?

Show
your
method

p

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

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**?

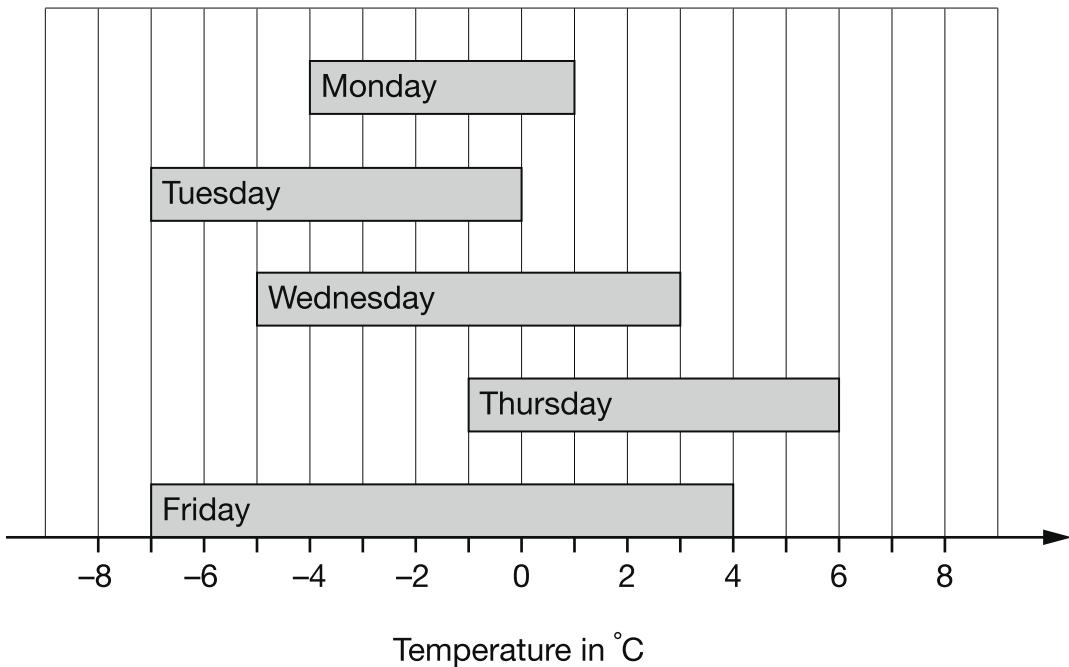
Show
your
method

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

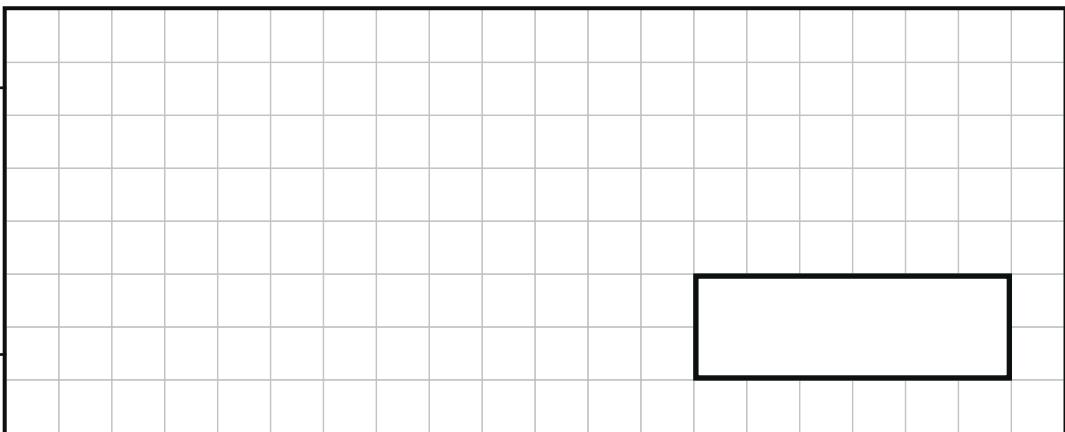
7

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



A large rectangular grid divided into 10 columns and 10 rows of smaller squares, intended for working out the answer.



A smaller rectangular box with a black border, likely for the final answer.

2 marks

8

7,546

Round this number:

to the nearest 1,000

to the nearest 100

to the nearest 10

2 marks

9

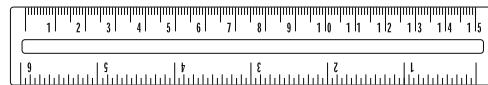
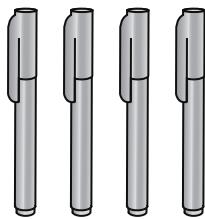
Complete the calculation.

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

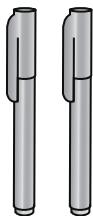
1 mark

10

Adam buys 4 pens and a ruler and pays £4.75 altogether.



Jack buys 2 pens and pays £1.98 altogether.



How much does a **ruler** cost?

Show
your
method

2 marks

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.

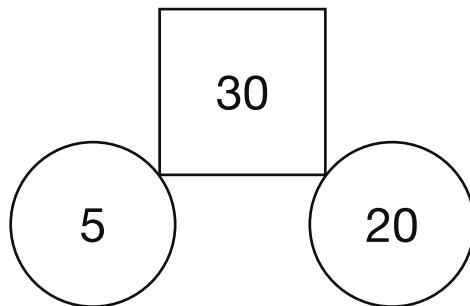
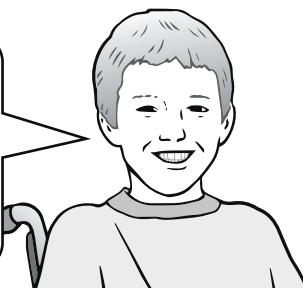
1 mark

12

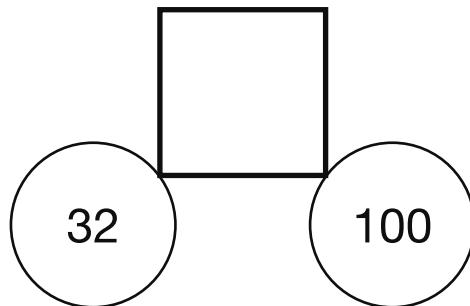
William says the rule for this diagram.

Find the difference between the numbers in the circles.

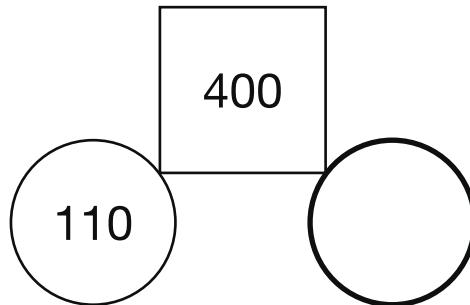
Double this to make the number in the square.



Use the same rule to write the missing numbers below.



1 mark



1 mark

13

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

$$\frac{2}{3} + \boxed{\phantom{\frac{1}{1}}} = \frac{5}{6}$$

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

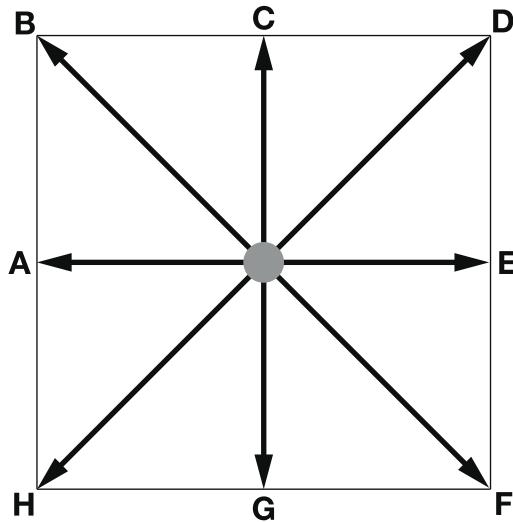
What is the total cost of hiring the hall from 6pm until 11pm?

£

1 mark

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**.

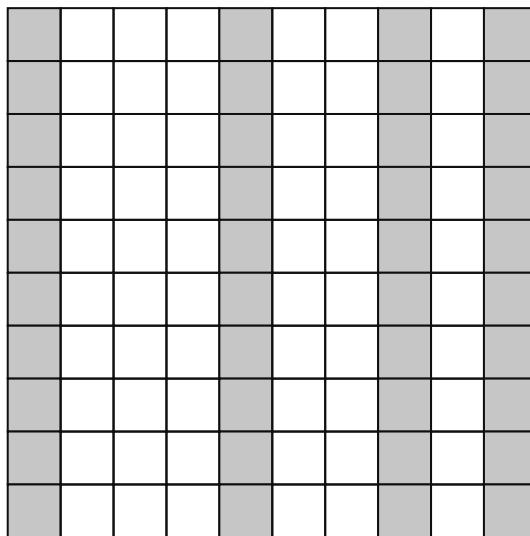
He turns **3 right angles clockwise**.

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

1 mark

16

Part of this 10×10 grid is shaded.



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

$\frac{1}{4}$

$\frac{2}{5}$

$\frac{4}{10}$

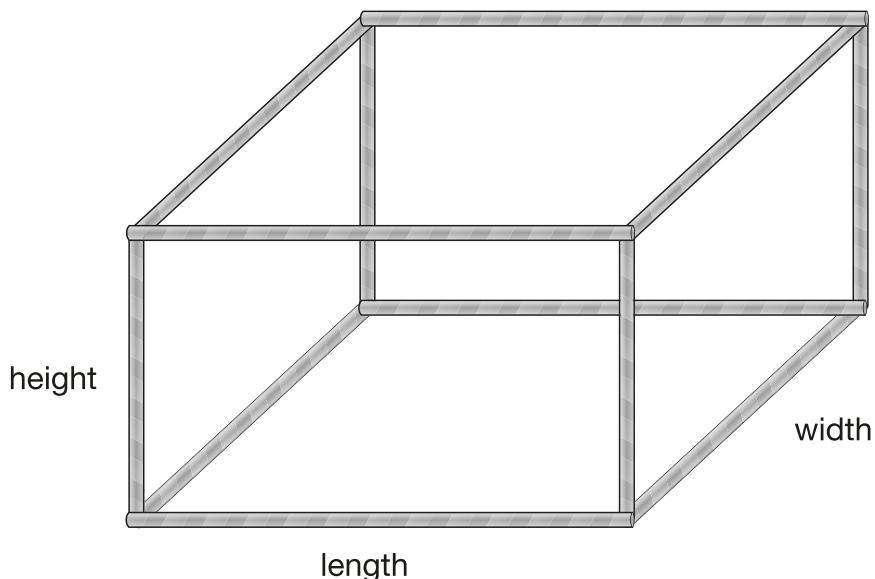
$\frac{6}{10}$

$\frac{40}{100}$

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

cm

2 marks



The **full price** of a T-shirt is £15

The price is reduced by 30%.

What is the **reduced price**?

Show
your
method

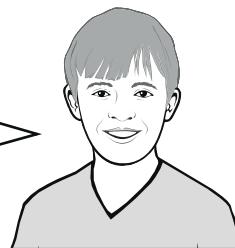
£

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, scalloped-edged cloud-shaped box, designed to look like a thought bubble, intended for the student's written response.

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

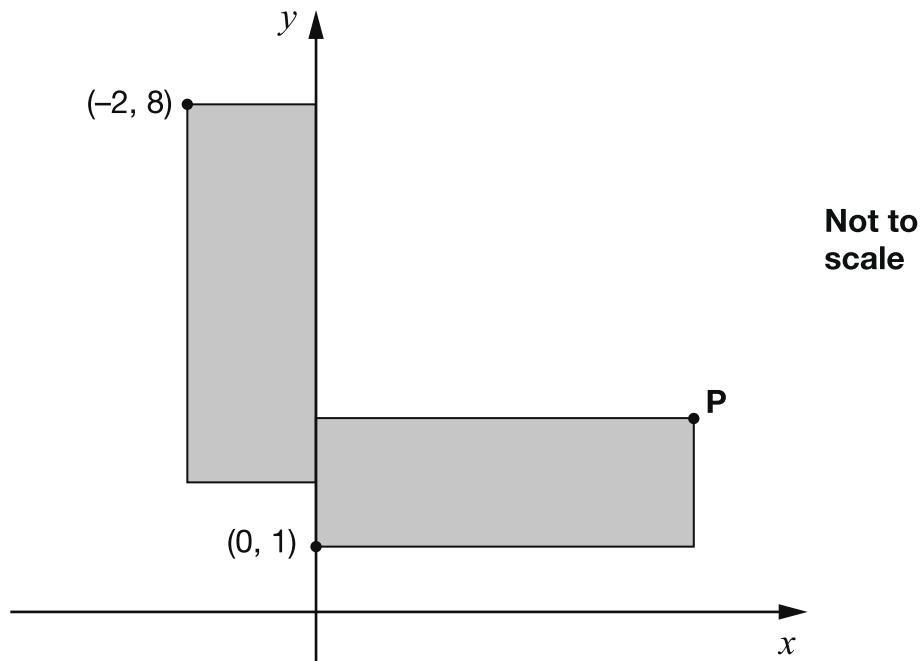
people

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