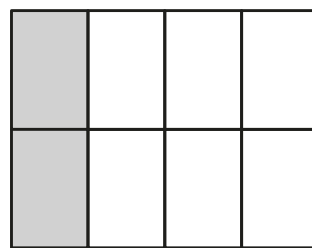
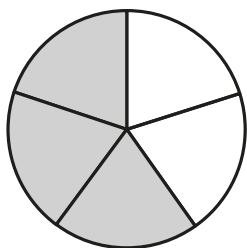
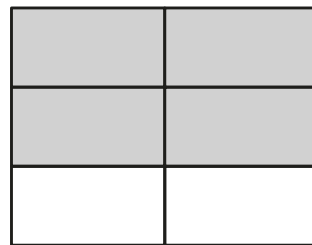
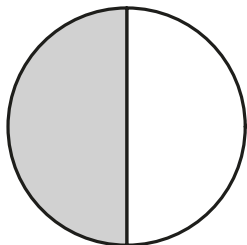
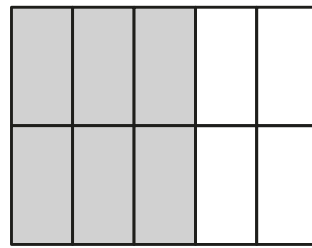
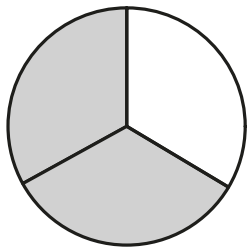
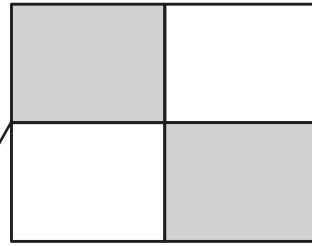
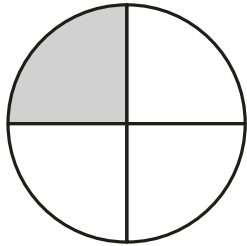


1

These shapes have a fraction shaded.

Match each shaded fraction of a circle to the same shaded fraction of a rectangle.

One has been done for you.



1 mark

2

The temperature in a freezer is -40°C .

The temperature increases by 10°C .

What is the new temperature?

$^{\circ}\text{C}$

1 mark

4

The diameter of the Moon is 3,476 kilometres.

What is this diameter to the **nearest hundred** kilometres?

km

1 mark

5

Match each of these Roman numerals to the correct number.

One has been done for you.

CVI

1110

DXC

106

DLXXI

590

MCX

571

1 mark

6

Match each fraction to its equivalent simplified fraction.

One has been done for you.

Fraction

Simplified
fraction

$$\frac{12}{20}$$

$$\frac{4}{5}$$

$$\frac{12}{15}$$

$$\frac{2}{3}$$

$$\frac{12}{16}$$

$$\frac{3}{5}$$

$$\frac{12}{18}$$

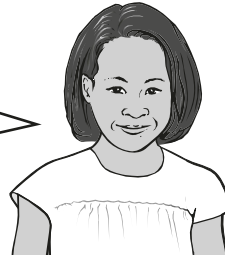
$$\frac{3}{4}$$

1 mark

7

Emma thinks of a number. She says,

I multiply by 2
I add 11
I divide by 3
My answer is 9



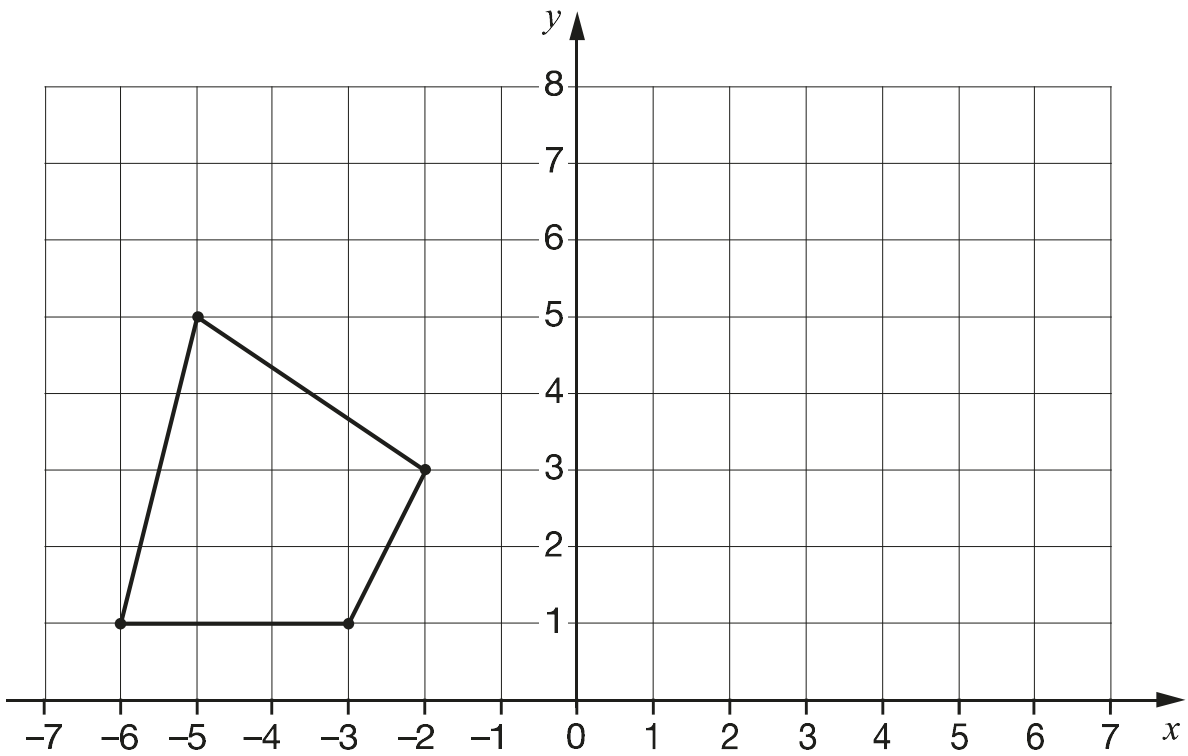
What number did Emma think of?

1 mark

8

Here is a shape.

Draw the shape after it is translated 8 units to the right.



1 mark

Use a ruler.

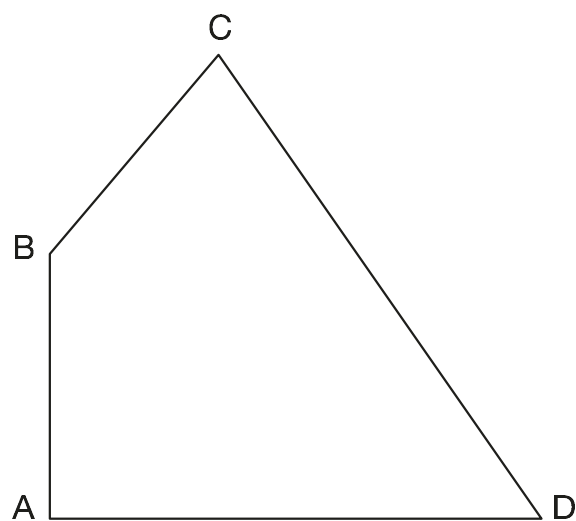
9

Write the missing numbers in the table.

Number of weeks	Number of days
1	7
2	14
4	28
6	
10	
	105

1 mark

10

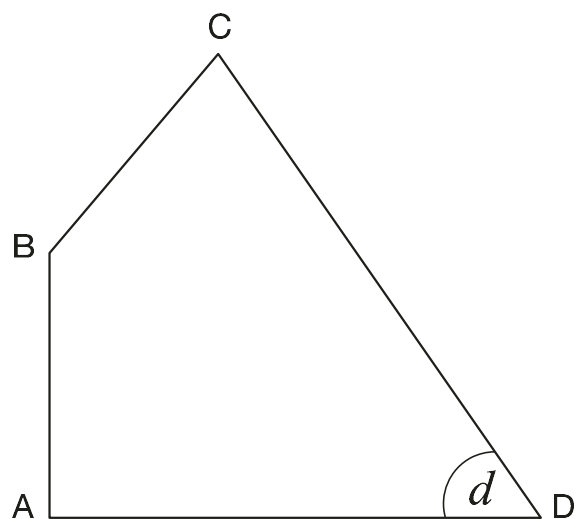


What is the perimeter of the shape, **in millimetres**?

Use a ruler.

 mm

1 mark



Measure the size of angle d .

Use an angle measurer.

d is °

1 mark

11

Write the missing digits to make this **subtraction** correct.

$$\begin{array}{r}
 57\boxed{} \\
 - 3\boxed{}5 \\
 \hline
 \boxed{}68
 \end{array}$$

2 marks

12

Here are four fractions.

$$\frac{7}{8}$$

$$\frac{1}{5}$$

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

$$\frac{8}{10}$$

Write the fractions in order starting with the least.

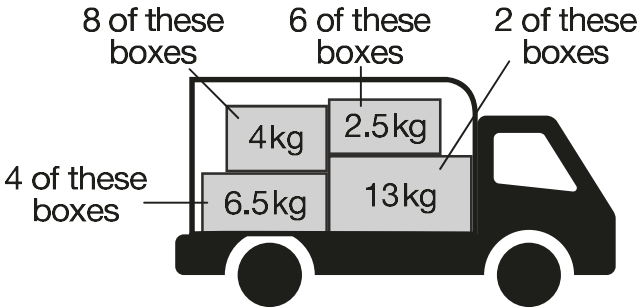
least

1 mark

13

There are 20 boxes on a truck.

The boxes are in 4 different sizes.



What is the **total mass** of the 20 boxes on the truck?

Show your method

A 20x10 grid with a unit label 'kg' in the bottom right corner.

2 marks

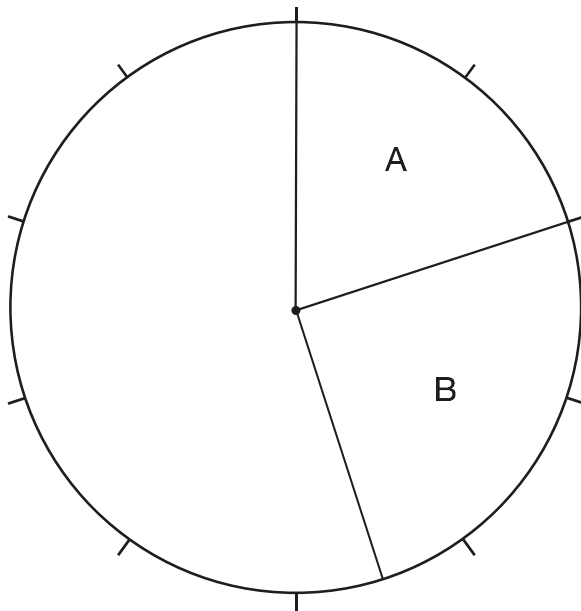
14

Look at the data in this table.

Label	Percentage
A	20%
B	25%
C	15%
D	30%
E	10%

Using this data, draw **two** lines and write **three** labels to complete the pie chart.

Use a ruler.



2 marks

15

35% of the 680 pupils at a school have a pet dog.

159 of the pupils who have a pet dog are boys.

How many of the pupils who have a pet dog are girls?

Show
your
method

The grid is 20 columns wide and 10 rows high. A smaller box, 10 columns wide and 2 rows high, is located in the bottom right corner of the grid, intended for the final answer.

2 marks

16

Write a number in the box to make this correct.

$$\frac{3}{5} < \frac{\boxed{}}{100} < 0.7$$

1 mark

17

Tick the numbers that are factors of both 54 **and** 72

2

☐

3

☐

4

☐

8

☐

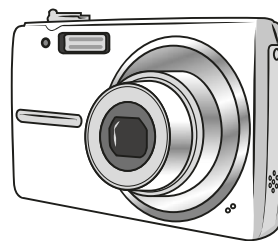
9

☐

1 mark

18

Layla wants to buy a camera that costs £65



For the first 10 weeks, she saves £2 each week.

Then she saves £3 each week.

How many weeks **altogether** does it take Layla to save £65?

Show
your
method

weeks

2 marks

19

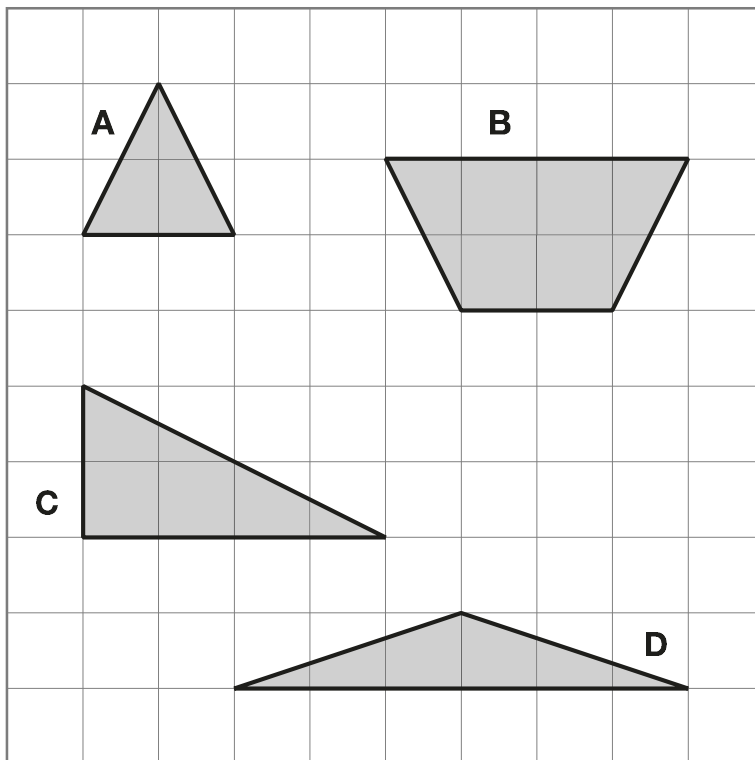
Complete this division.

$$\begin{array}{r} \square 64 \text{ r}1 \\ 12 \overline{) 436 \square} \end{array}$$

2 marks

20

Here are four shapes on a grid.

Write the letters of **all** the shapes that have **only two** acute angles.1 mark

21

A band holds a concert for charity.

The tickets cost £27 each.

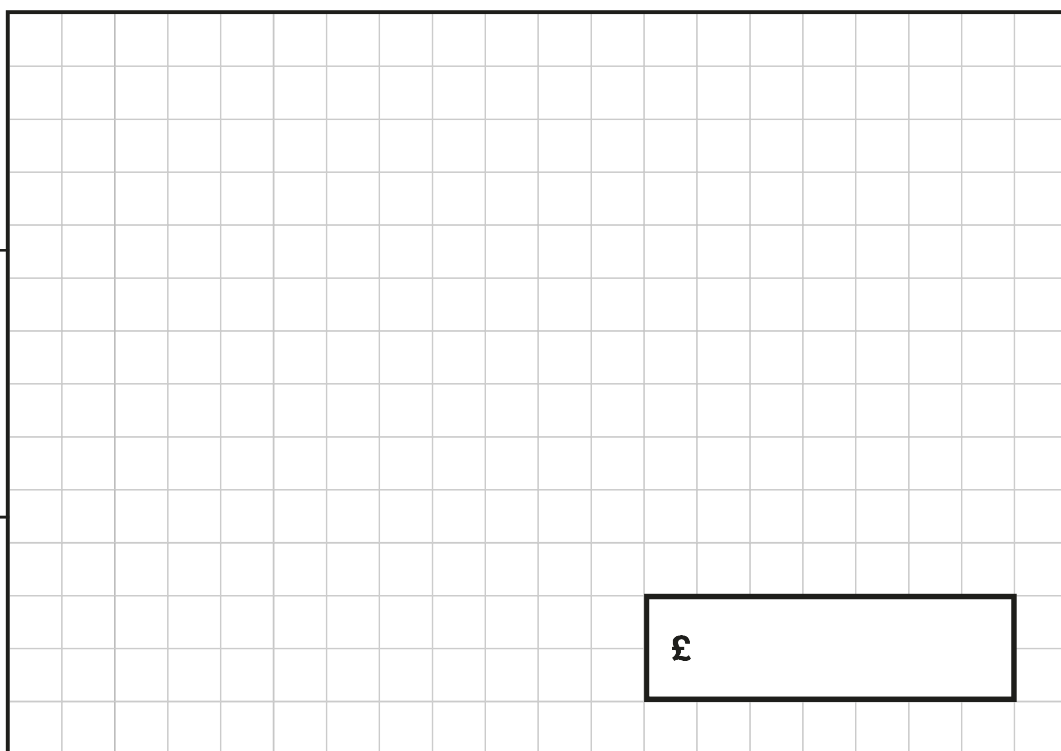
They sell 635 tickets.

They pay £3,180 to use the hall.

They give one-third of the **remaining** amount to charity.

How much money does the band give to charity?

Show
your
method

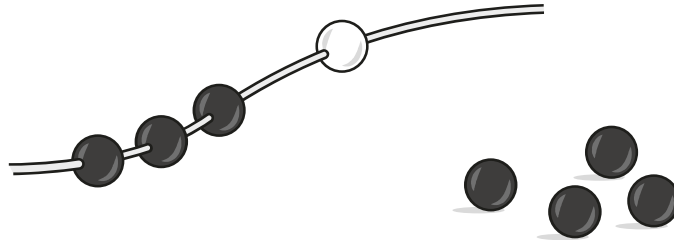


£

3 marks

22

Sarah makes jewellery using black and white beads.



She uses this rule to work out how many black beads to use.

$$\text{black} = (\text{white} \times 3) + 4$$

Sarah uses 12 **white** beads to make a necklace.

How many black beads does she use?

1 mark

Sarah uses 25 **black** beads to make a bracelet.

How many white beads does she use?

1 mark

23

Complete the table.

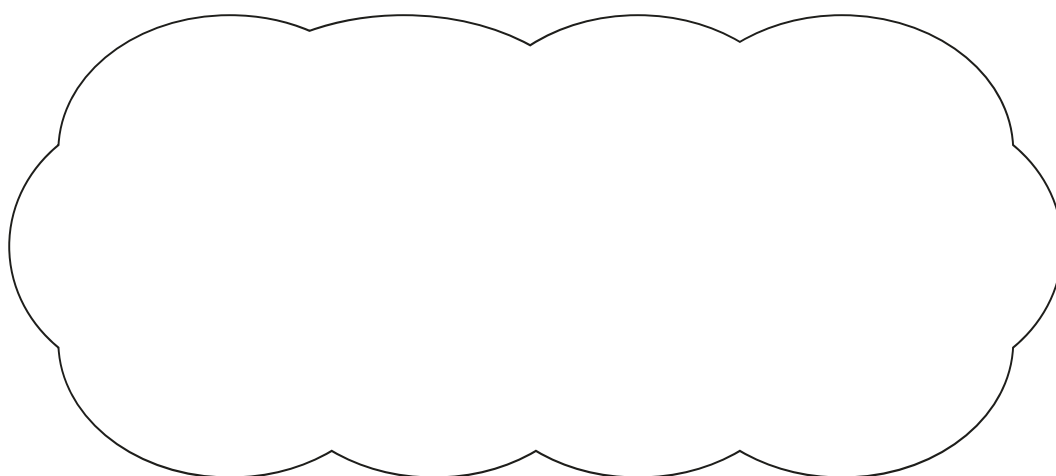
Name of 3-D shape	Number of faces
cube	
pentagonal prism	
triangular-based pyramid	

1 mark

24

 $\frac{1}{2} \times \frac{5}{6}$ is greater than the value of $\frac{1}{3} \times \frac{7}{8}$

Explain how you know.



1 mark