

Key Stage 2

Mathematics

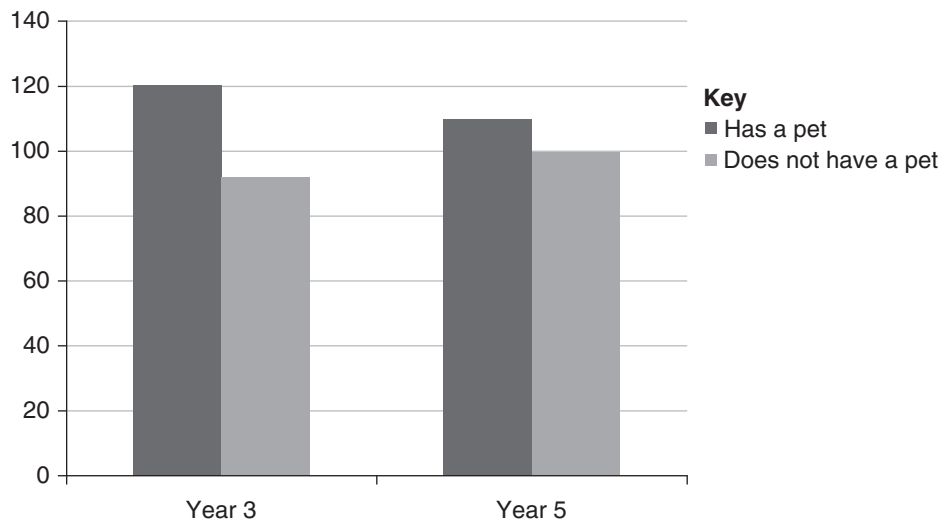
Set A

Paper 2: reasoning

Name						
School						
Date of Birth	Day		Month		Year	

1 Sara asked the children in Year 3 and Year 5 if they had a pet.

This graph shows the results.



Altogether, how many children do not have a pet?

1 mark

How many more Year 3 children than Year 5 children have a pet?

1 mark

2 Write the missing numbers to make this multiplication grid correct.

x		
8	72	40
	108	60

1 mark

3 Circle the number that is ten times greater than four hundred and three.

4,300 403 4003 430 4030

1 mark

4 This table shows the lengths of three rivers.

River	Length in km
Nile	6,853
Zambezi	2,693
Loire	1,012

How much longer is the river Nile than the combined length of the other two rivers?

Show your method

A large grid for showing the method. A box is drawn on the grid containing the text "km".

2 marks

5

Write the missing numbers.

$$72 \text{ months} = \boxed{} \text{ years}$$

$$96 \text{ hours} = \boxed{} \text{ days}$$

$$77 \text{ days} = \boxed{} \text{ weeks}$$

2 marks

6

Complete this table with the missing numbers.

One row has been done for you.

Number	1,000 more
2,800	3,800
26	
	8,054
	17,269

2 marks

7 At the start of May, there were 1,576 tennis balls in the sports shop.

During May,

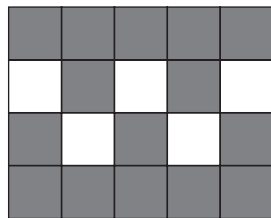
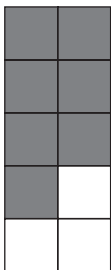
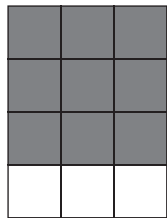
- 9,854 more tennis balls were delivered
- 8,546 tennis balls were sold.

How many tennis balls were left in the shop at the end of May?

Show
your
method

2 marks

8 Tick two shapes that have $\frac{3}{4}$ shaded.



1 mark

9

Here is a rule for the time it takes to cook roast beef.

Cooking time = 30 minutes plus an extra 20 minutes for each kilogram

How many minutes will it take to cook a 4 kg joint of beef?

minutes

1 mark

What is the mass of a joint of beef that takes 90 minutes to cook?

kg

1 mark

10

Round 76,615

to the nearest 10:

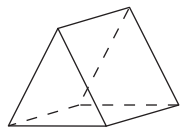
to the nearest 100:

to the nearest 1,000:

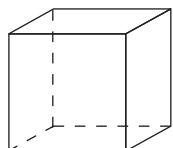
2 marks

11 Here are diagrams of some 3-D shapes.

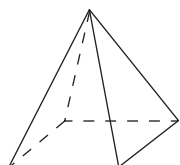
Tick each shape which has more vertices than faces.



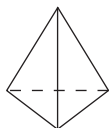
Triangular prism



Cube



Square-based pyramid



Triangular-based pyramid

2 marks

12 Write these numbers in order of size, starting with the **smallest**.

2.5 0.72 2.134 0.428

1 mark

15 Amy poured some drinks at a party.

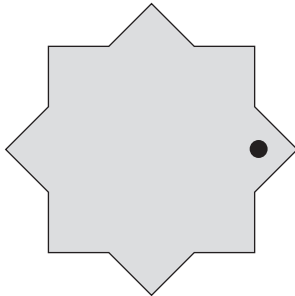
For every 4 drinks Amy poured, only 3 were drunk.

Altogether, 15 drinks were drunk.

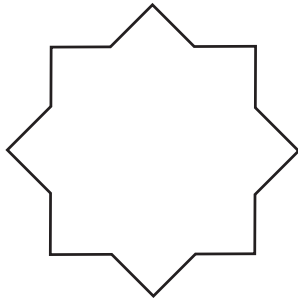
How many drinks did Amy pour?

1 mark

16 Craig spins this spinner:



The spinner completes one-and-a-half turns before it stops. Draw the new position of the dot on this spinner:



1 mark

17 Amina posts three parcels.

The postage costs the same for each parcel.

She pays with a £20 note.

Her change is £14.81

What is the cost of posting one parcel?

Grid area for showing the method. Includes a callout box labeled "Show your method" and a designated box for the answer labeled "£".

2 marks

18 Ben has driven 20 kilometres. 10% of his journey has been completed.

Write the missing percentage.

Ben has driven 30 kilometres. % of his journey has been completed.

1 mark

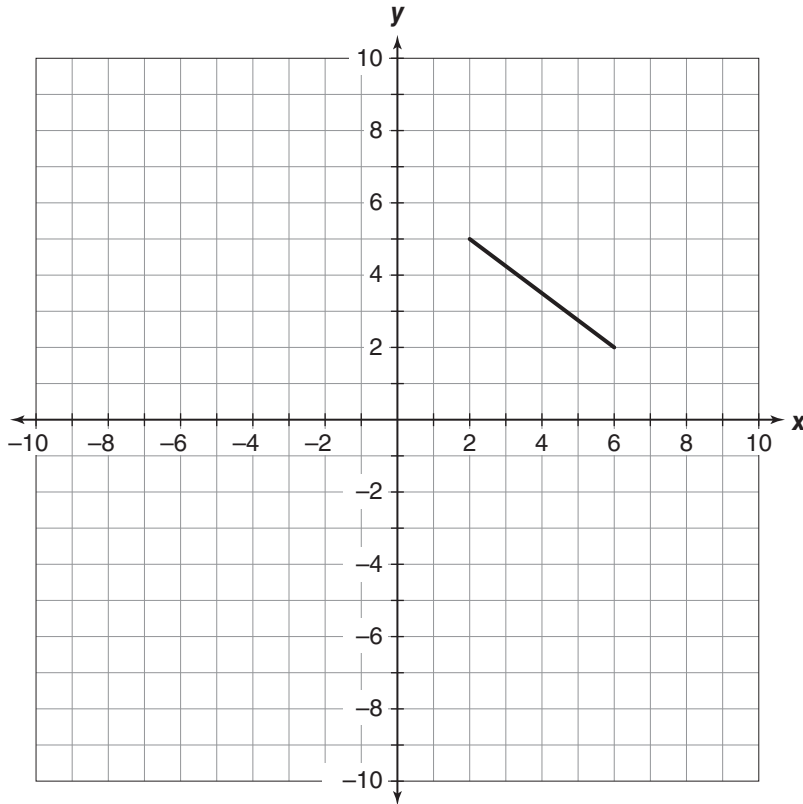
19 The vertices of a quadrilateral have these coordinates.

$(2, 5)$ $(6, 2)$ $(1, -7)$ $(-6, 5)$

One side of the quadrilateral has been drawn on the grid.

Complete the quadrilateral.

Use a ruler.

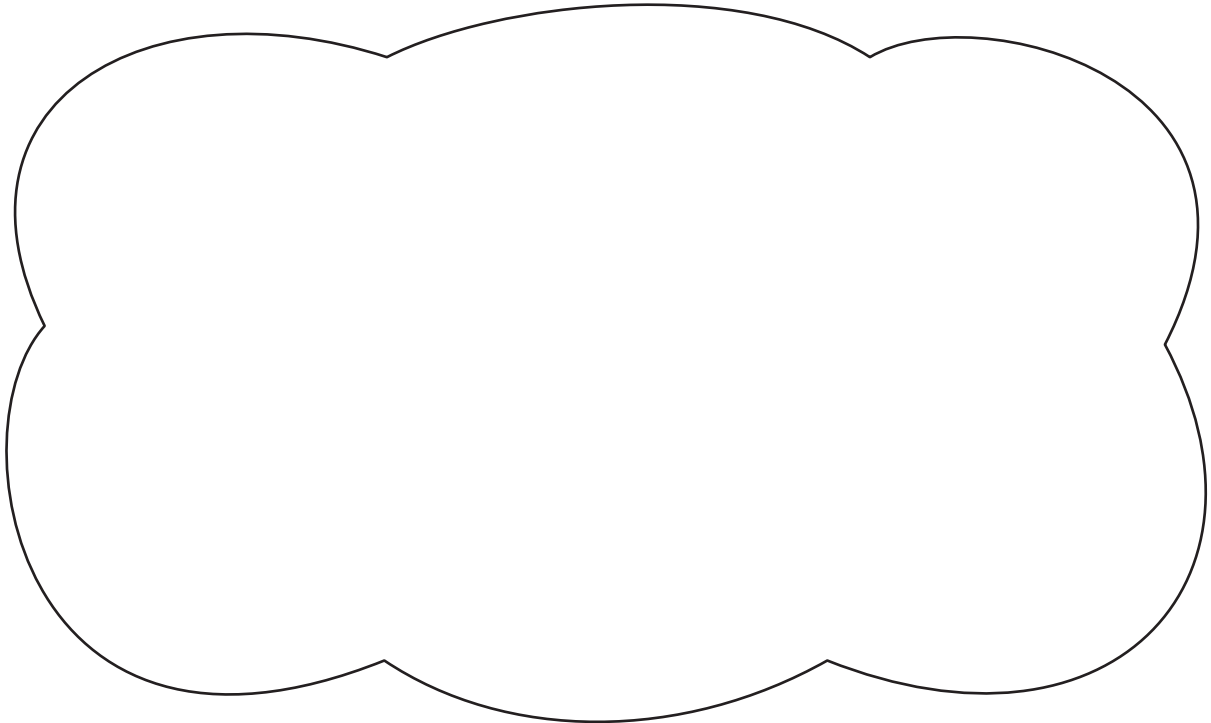


1 mark

20 Mohammed says

'0.4 is smaller than $\frac{4}{5}$,

Explain why he is correct.



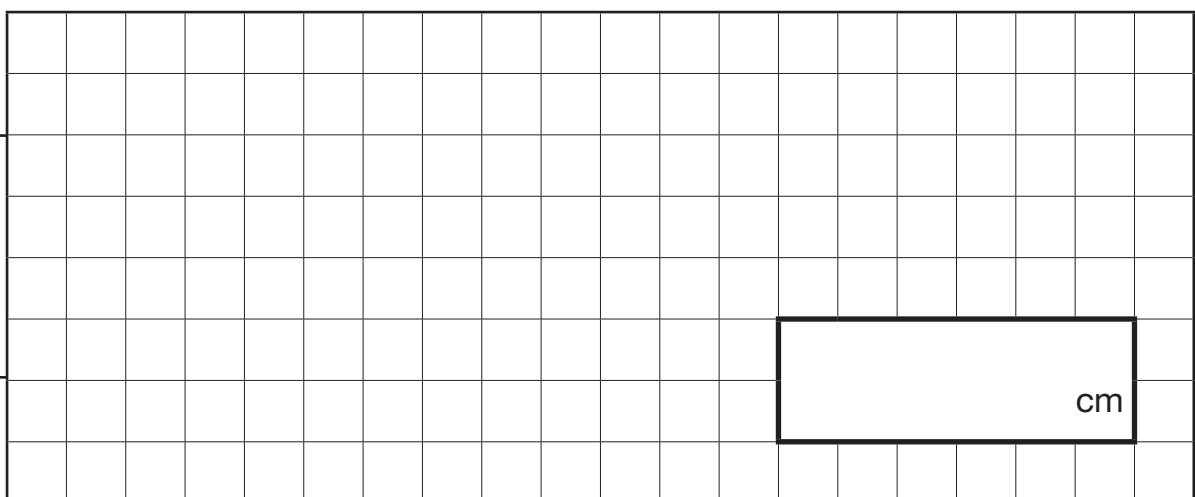
1 mark

21 On a map, 1 cm represents 50 km.

The distance between two towns is 775 km.

On the map, what is the measurement in cm between the two towns?

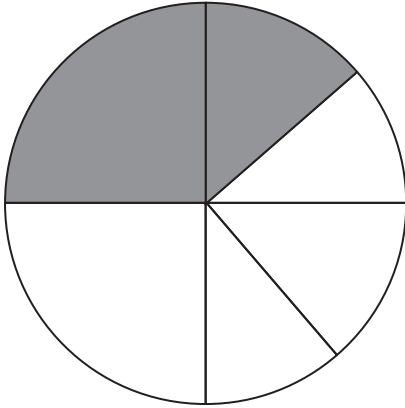
**Show
your
method**



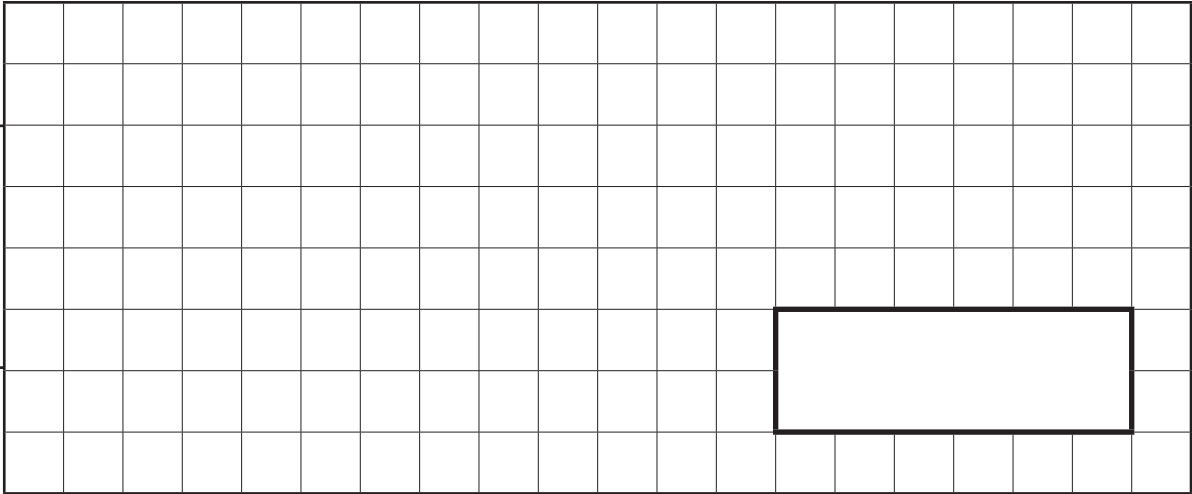
2 marks

22 In this circle, $\frac{1}{4}$ and $\frac{1}{8}$ are shaded.

What fraction of the whole circle is **not** shaded?



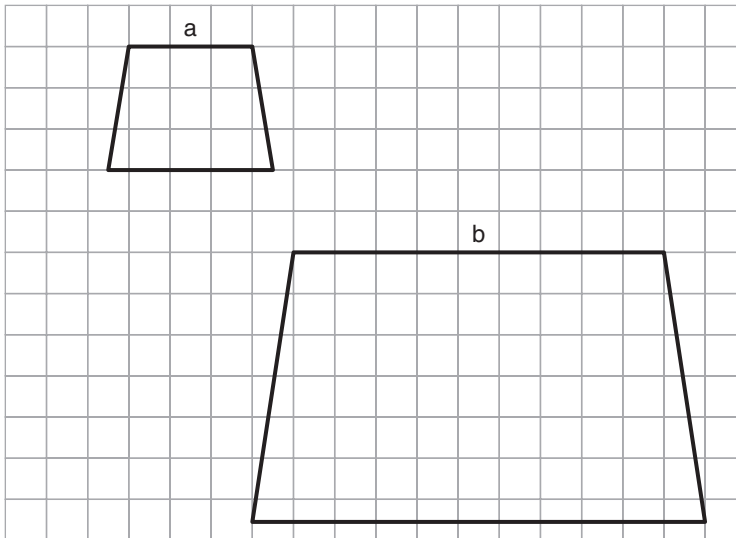
Show
your
method



2 marks

23

Here are two similar quadrilaterals.



Write the ratio of side a to side b .

1 mark

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