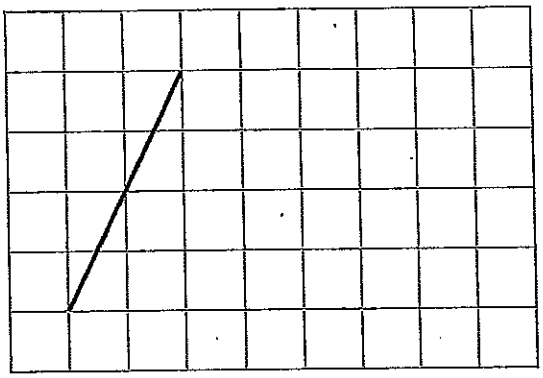
Practice Test 4 — Levels 5B and 5A

1 Calculate 29.7 × 6.

Show your working.

2 marks

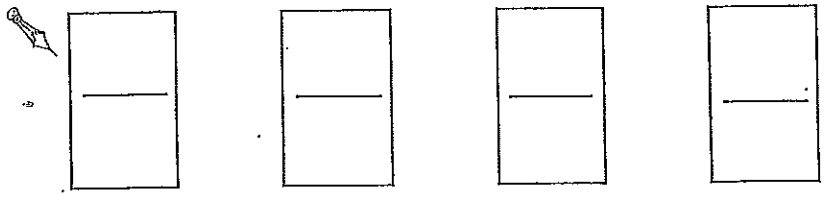
2 One line has been drawn on this grid. Use a ruler to draw three more lines to make a parallelogram with an area of 20 squares.



1 mark

3 Write these fractions in size order, starting with the smallest.

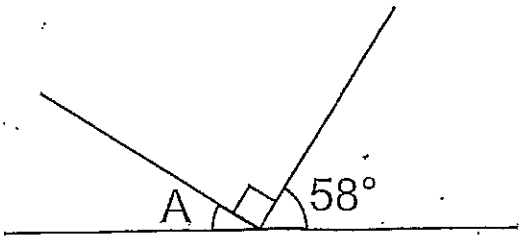
$\frac{3}{4}$ $\frac{2}{3}$ $\frac{5}{6}$ $\frac{1}{2}$



smallest ⟶ largest

2 marks

4 The diagram below shows three angles. It has not been drawn accurately. Calculate the size of angle A.



° 1 mark

5 Calculate 800 ÷ (8 × 25).

1 mark

6 Fill in the three missing digits to make this calculation correct.

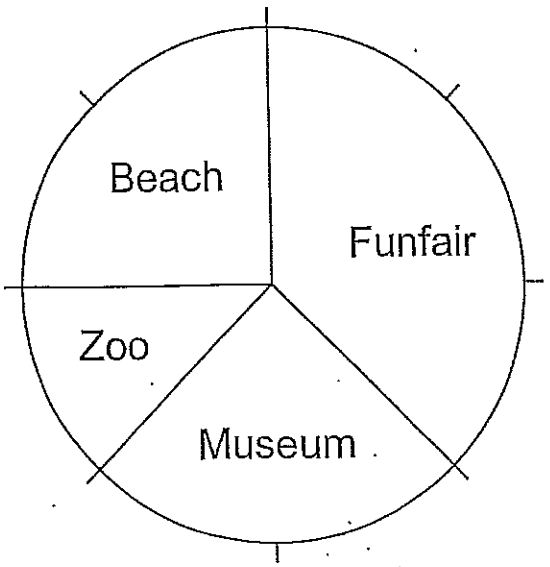
□□ × □ = 217

1 mark

7 Calculate 15% of 60.

1 mark

8 40 children voted on where they would like to go for a school trip.
The pie chart shows the results.



How many children voted to go to the funfair?

□ children

1 mark

What percentage voted to go to the museum?

□ %

1 mark

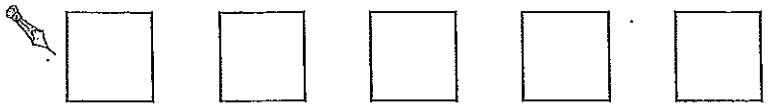
9 Craig has 5 number cards. The number on each card is less than 10.

The mode is 5

The median is 5

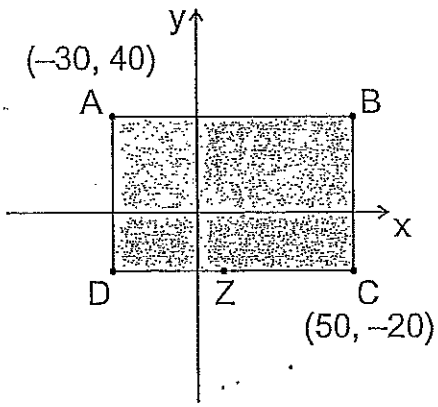
The range is 3

Write 5 possible numbers that could be on Craig's cards.



1 mark

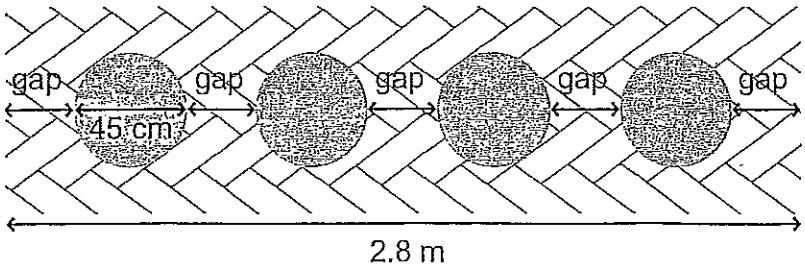
10 Here is a shaded rectangle drawn on a set of x and y axes.
The point Z is halfway between the points C and D.
Write the coordinates of point Z



(,)

1 mark

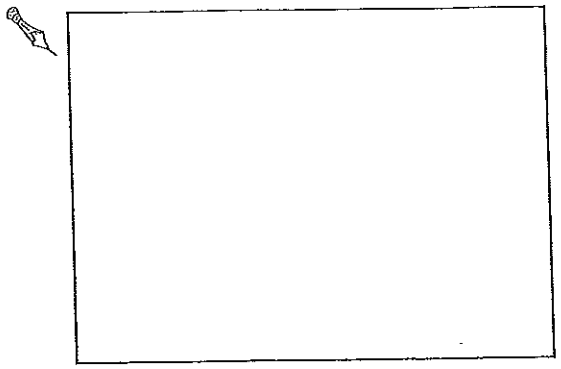
11 Four circular paving stones are used to make a path.
The gaps between each stone are the same. Using the diagram below, calculate the width of the gap between two of the stones. Show your working.



cm

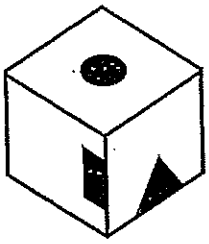
2 mark

12 Calculate 782 ÷ 17. Show your working.



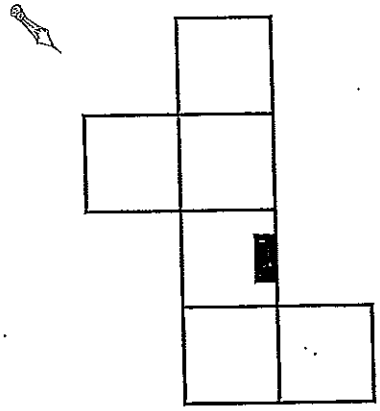
2 marks

13 A cube has shaded shapes on 3 of its faces.



Here is a net of the cube.

Draw the 2 missing shaded shapes on the net.



1 mark

14 In this question, a, b and c stand for 3 different whole numbers.

$a + b + c = 130$	b is 10 more than a	c is twice as big as a

Use this information to calculate the values of a, b and c.
Show your working.

$a =$ $b =$ $c =$

2 marks

1 Last week, Sally visited the sports centre every day except Sunday.
The total cost of these visits was £8.00.

On Saturday she went on the trampoline, which cost £1.25.
On the other five days she went swimming.
It cost her the same amount to swim each time.

How much did she pay each time she went swimming?

£ ☐ 1 mark

2. 7 strawberry laces cost 77p. 3 strawberry laces and 2 jelly snakes cost 83p.
1 jelly snake and 6 cola bottles cost 61p.

Find the cost of each type of sweet.

Strawberry lace
p ☐ 1 mark

Jelly snake
p ☐ 1 mark

Cola bottle
p ☐ 1 mark

3. Four identical bookcases have a total mass of 266 kg.
What is the total mass of seven of these bookcases?

kg ☐ 1 mark

4. A computer game is sold in-store and online.
In-store it usually costs £25, but has been reduced by 20%.
Online it usually costs £21 but has been reduced by $\frac{1}{3}$.

How much cheaper is it online than in-store? Show your working.

£ ☐ 2 marks

5. Rebecca has a jewellery stall at her school's summer fair. It costs £15 to have a stall, and she spends £21 on materials for her jewellery. Her sales are shown in the table below. She decides to donate 25% of her profits to her favourite charity.

Item	Price	Number sold
Necklace	£5	7
Bracelet	£3	9
Earrings	£2.50	10

How much money does she get to keep? Show how you got your answer.

£

2 marks

6. Kalim is making flapjacks. A recipe for 24 flapjacks needs 400 g of oats.
Kalim wants to make 60 flapjacks.

How many grams of oats will he need?

g

1 mark

7. Sue is sewing names onto PE bags. It takes her 15 minutes to sew the first 5 letters, then 2 minutes for each extra letter.

How long will it take her to sew the name Madeleine?

mins

1 mark

8. Elizabeth spends £314.50 on 37 bottles of shampoo for her salon.
The next month, she spends £238 on the same type of shampoo.

How many bottles of shampoo did she buy in the second month?

bottles

1 mark