GCSE Grade 5

Maths Booklet 5

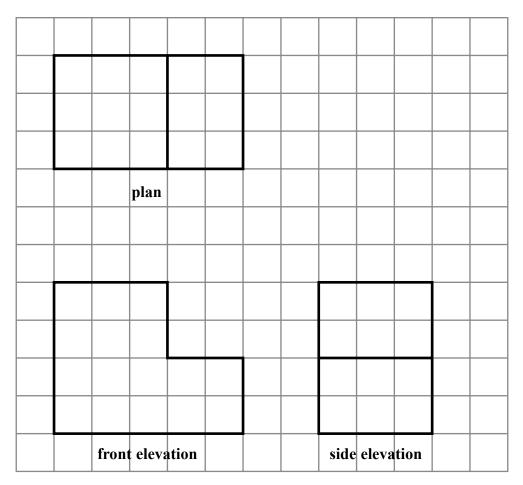
Paper 1H Non-Calculator

www.ggmaths.co.uk

1	In a company, the ratio of the number of men to the number of women is 3:2
	40% of the men are under the age of 25 10% of the women are under the age of 25
	What percentage of all the people in the company are under the age of 25?
	_

(Total for Question 1 is 4 marks)

The plan, front elevation and side elevation of a solid prism are drawn on a centimetre grid.



In the space below, draw a sketch of the solid prism. Write the dimensions of the prism on your sketch.

(Total for Question 2 is 2 marks)

3 There are 1200 students at a school.

Kate is helping to organise a party. She is going to order pizza.

Kate takes a sample of 60 of the students at the school. She asks each student to tell her **one** type of pizza they want.

The table shows information about her results.

Pizza	Number of students
ham	20
salami	15
vegetarian	8
margarita	17

Work out how much ham pizza Kate should order.

Write down any assumption you make and explain how this could affect your answer.

(Total for Question 3 is 3 marks)

Work out the value of x and the value of y.

DO NOT WRITE IN THIS AREA

$$v =$$

DO NOT WRITE IN THIS AREA

(Total for Question 4 is 5 marks)

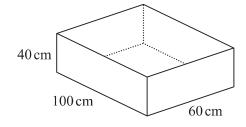
5 The diagram shows a sand pit.
The sand pit is in the shape of a cuboid.

Sally wants to fill the sand pit with sand. A bag of sand costs £2.50 There are 8 litres of sand in each bag.

Sally says,

"The sand will cost less than £70"

Show that Sally is wrong.



(Total for Question 5 is 5 marks)

6 (a) Work out $2\frac{1}{4} \times 3\frac{1}{3}$

Give your answer as a mixed number in its simplest form.



(b) Write the numbers 3, 4, 5 and 6 in the boxes to give the greatest possible total. You may write each number only once.

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

(1)

(Total for Question 6 is 4 marks)

7 A shop has a sale.

Microwave ovens

 $\frac{1}{3}$ off normal price

Combination ovens

40% off normal price

A microwave oven has a sale price of £90 A combination oven has a sale price of £84

Which of these ovens has the greater normal price? You must show all your working.

(Total for Question 7 is 4 marks)

8 Work out an estimate for $\sqrt{4.98 + 2.16 \times 7.35}$

(Total for Question 8 is 3 marks)