

Mock Grade 5

Maths

Booklet 5

Paper 1H

Non-Calculator

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1 In a company, the ratio of the number of men to the number of women is 3 : 7

40% of the men are under the age of 25

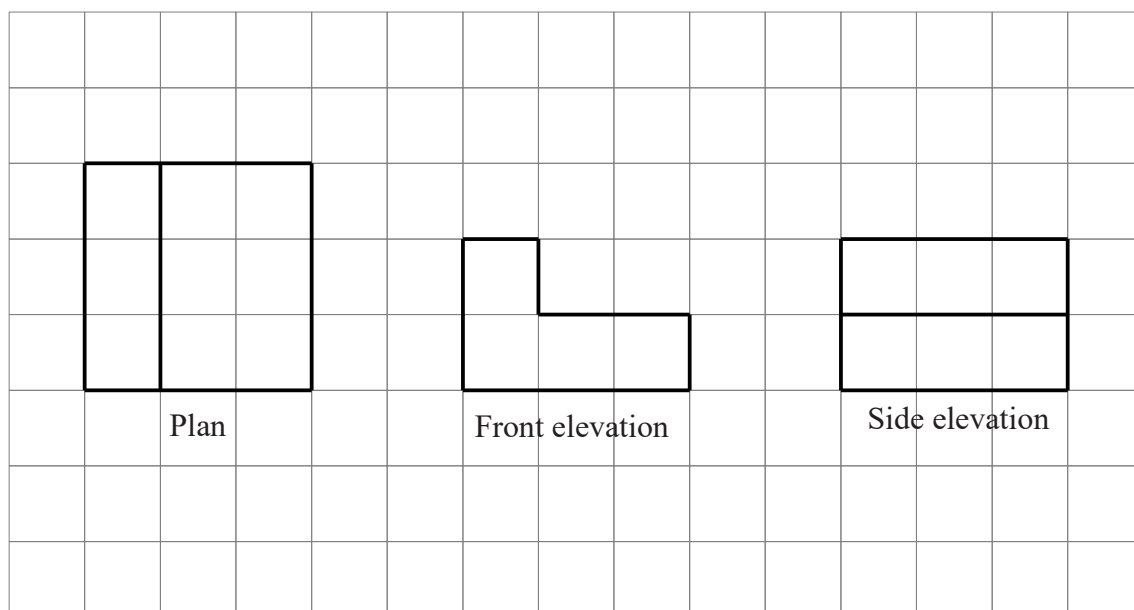
20% of the women are under the age of 25

What percentage of all the people in the company are under the age of 25?

.....%

(Total for Question 1 is 4 marks)

- 2 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 1400 students at a school.

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

Kate takes a sample of 70 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	30
salami	18
vegetarian	10
margarita	12

Work out how much ham pizza Kate should order.

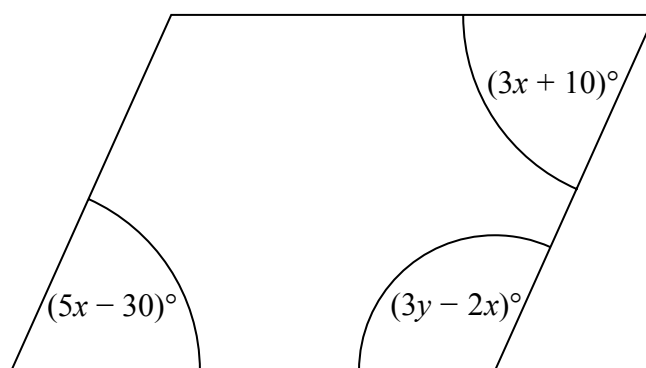
Write down any assumption you make **and** explain how this could affect your answer.

.....

.....

(Total for Question 3 is 3 marks)

4 Here is a parallelogram.



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

$x =$

$y =$

(Total for Question 4 is 5 marks)

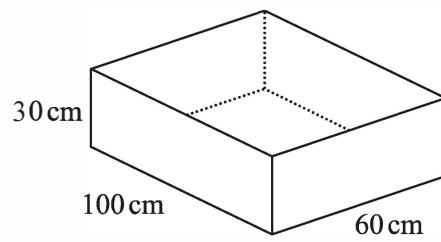
- 5 The diagram shows a sand pit.
The sand pit is in the shape of a cuboid.

Sally wants to fill the sand pit with sand.
A bag of sand costs £4.50
There are 6 litres of sand in each bag.

Sally says,

“The sand will cost less than £140”

Show that Sally is wrong.



(Total for Question 5 is 5 marks)

6 (a) Work out $2\frac{1}{3} \times \frac{3}{5}$

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

.....
(3)

- (b) Write the numbers 4, 5, 6 and 7 in the boxes to give the greatest possible total.
You may write each number only once.

$$\begin{array}{|c|} \hline \square \\ \hline \end{array} \frac{3}{\begin{array}{|c|} \hline \square \\ \hline \end{array}} + \begin{array}{|c|} \hline \square \\ \hline \end{array} \frac{2}{\begin{array}{|c|} \hline \square \\ \hline \end{array}}$$

(1)

(Total for Question 6 is 4 marks)

7 A shop has a sale.

Microwave ovens

$\frac{1}{5}$ off normal price

Combination ovens

30% off normal price

A microwave oven has a sale price of £120

A combination oven has a sale price of £112

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 $\frac{21.75 + \sqrt{98.1}}{0.192}$

(Total for Question 8 is 3 marks)