

GCSE Grade 4

Maths

Booklet 3

Paper 1H

Non-Calculator

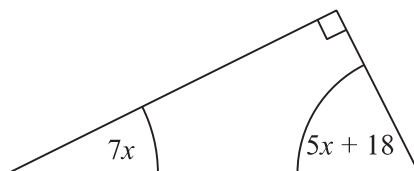
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Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

- 1 The diagram shows a right-angled triangle.



All the angles are in degrees.

Work out the size of the smallest angle of the triangle.

(Total for Question 1 is 3 marks)

- 2 A box exerts a force of 140 newtons on a table.
The pressure on the table is 35 newtons/m².

Calculate the area of the box that is in contact with the table.

$$p = \frac{F}{A}$$

p = pressure
 F = force
 A = area

(Total for Question 2 is 3 marks)



- 3 There are only red counters, blue counters, green counters and yellow counters in a bag.

The table shows the probabilities of picking at random a red counter and picking at random a yellow counter.

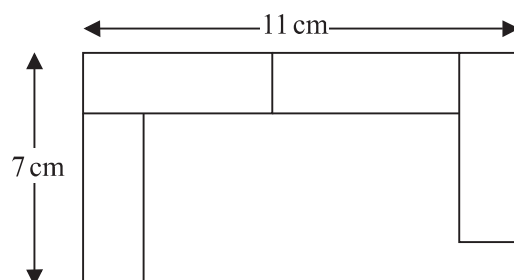
Colour	red	blue	green	yellow
Probability	0.24			0.32

The probability of picking a blue counter is the same as the probability of picking a green counter.

Complete the table.

(Total for Question 3 is 2 marks)

- 4 A pattern is made using identical rectangular tiles.



Find the total area of the pattern.

..... cm²

(Total for Question 4 is 4 marks)



DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

5 Find the Lowest Common Multiple (LCM) of 108 and 120

(Total for Question 5 is 3 marks)



- 6** There are 60 people in a choir.
Half of the people in the choir are women.

The number of women in the choir is 3 times the number of men in the choir.
The rest of the people in the choir are children.

the number of children in the choir : the number of men in the choir = $n : 1$

Work out the value of n .

You must show how you get your answer.

$n = \dots\dots\dots$

(Total for Question 6 is 4 marks)

- 7** Work out $1\frac{3}{4} \times 1\frac{1}{3}$

Give your answer as a mixed number.

(Total for Question 7 is 3 marks)



- 8 Use a ruler and compasses to construct the line from the point P perpendicular to the line CD . You must show **all** construction lines.

$\times P$

C _____ D

(Total for Question 8 is 2 marks)

