Mock Grade 4

Maths Booklet 3

Paper 1H
Non-Calculator

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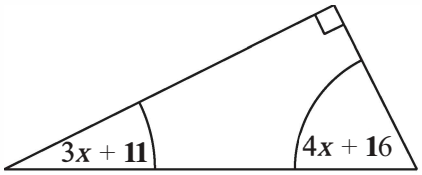
Answer ALL questions.

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 240 newtons on a table.
The pressure on the table is 32 newtons/m^2.

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	0.26			0.38

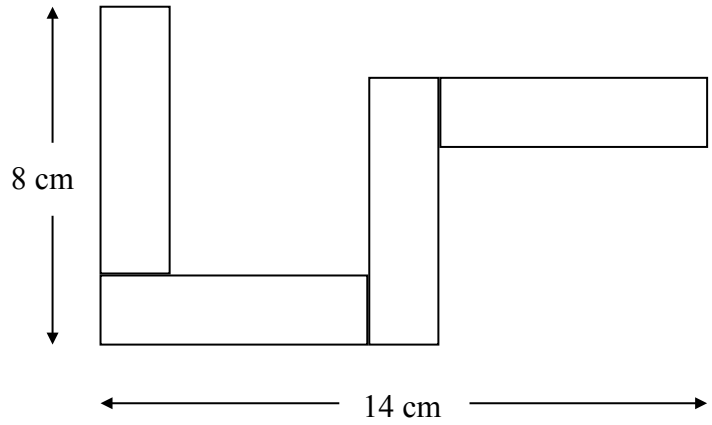
The probability of picking a blue counter is twice the probability of picking a green counter.

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.



..... cm^2

(Total for Question 4 is 4 marks)

5 Find the Highest Common Factor (HCF) of 360 and 150.

.....

(Total for Question 5 is 3 marks)

6 There are 120 people in a choir.
A third of the people in the choir are women.

The number of women in the choir is 4 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 = ...

(Total for Question 6 is 4 marks)

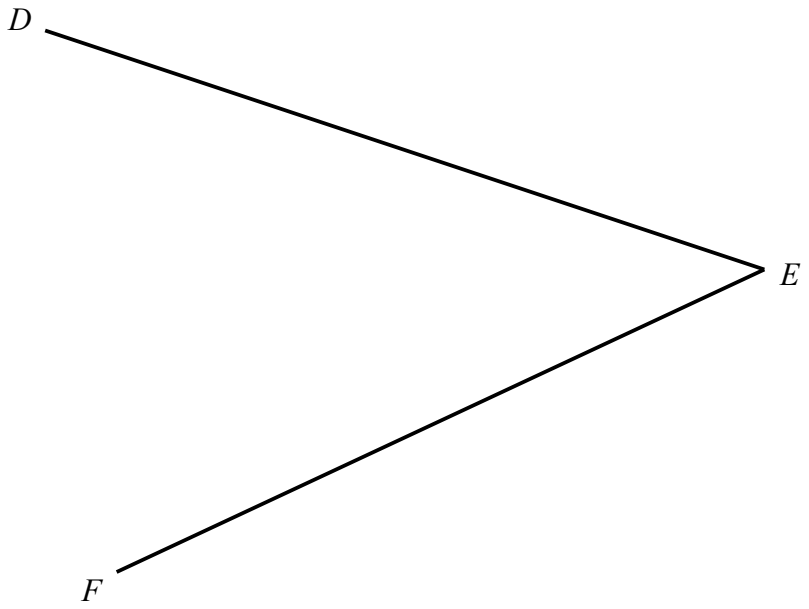
7 Work out $2\frac{1}{3} \times \frac{3}{5}$

Give your answer as a mixed number.

.....

(Total for Question 7 is 3 marks)

8 Use ruler and compasses to construct the bisector of angle DEF.
You must show **all** construction lines.



(Total for Question 8 is 2 marks)