Name: _____

BennettMaths Edexcel 2F – Part 1

1   Write 16 734 correct to the nearest thousand.

....

(Total for Question 1 is 1 mark)

2   Write 0.9 as a fraction.

....

(Total for Question 2 is 1 mark)

3   Change 950 centimetres into metres.

.... metres

(Total for Question 3 is 1 mark)

4   Simplify $7 \times 2g$

....

(Total for Question 4 is 1 mark)

5   Here is a list of numbers.

60   75   90   120   150

One of these numbers is a multiple of 45
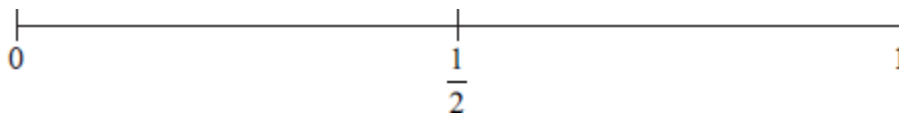
Which number?

....

(Total for Question 5 is 1 mark)

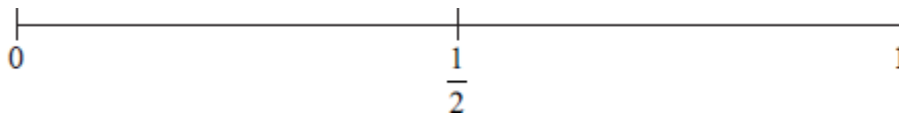**6** Susan has a fair ordinary dice.
She rolls the dice once.

(a) On the probability scale, mark with a cross (×) the probability that Susan gets a number less than 7.
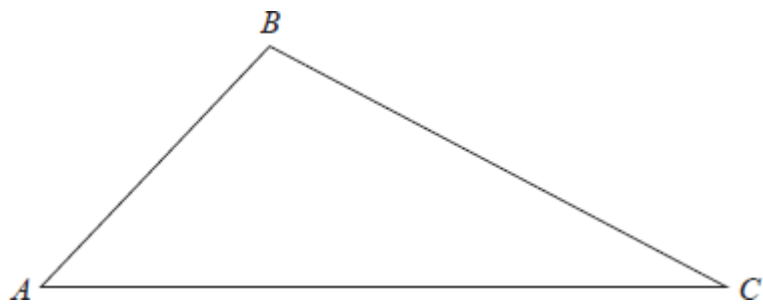

(1)

(*b*) On the probability scale, mark with a cross (×) the probability that Susan gets an odd number.

(1)

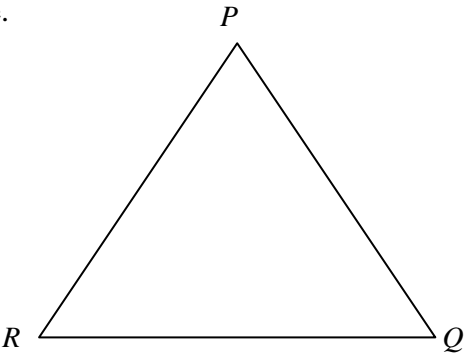**(Total for Question 6 is 2 marks)**

7 Here is a triangle.

(a) Measure the length of *BC*.

.... cm

(1)

(b) Measure the size of angle *A*.

....°

(1)

Here is a different triangle.

$QP = QR = PR$

(c) Write down the mathematical name of this triangle.

....

(1)

(Total for Question 7 is 3 marks)

8   The diagram shows three motorway service stations *P*, *Q* and *R* on a map.

$$\xleftarrow{\hspace{1cm} 10\ cm \hspace{1cm}} \times \xleftarrow{\hspace{2cm} 20\ cm \hspace{2cm}}$$

P   Q   R
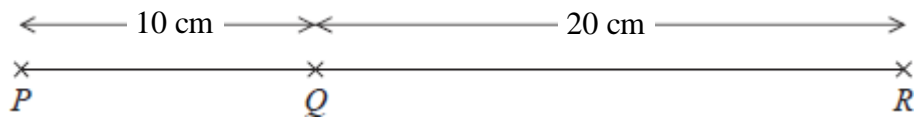
The map has a scale of 1 cm = 6 km.

Work out the real distance from *P* to *R*.

.... km

(Total for Question 8 is 3 marks)

9   Here are the first five terms of a sequence.

2   9   16   23   30
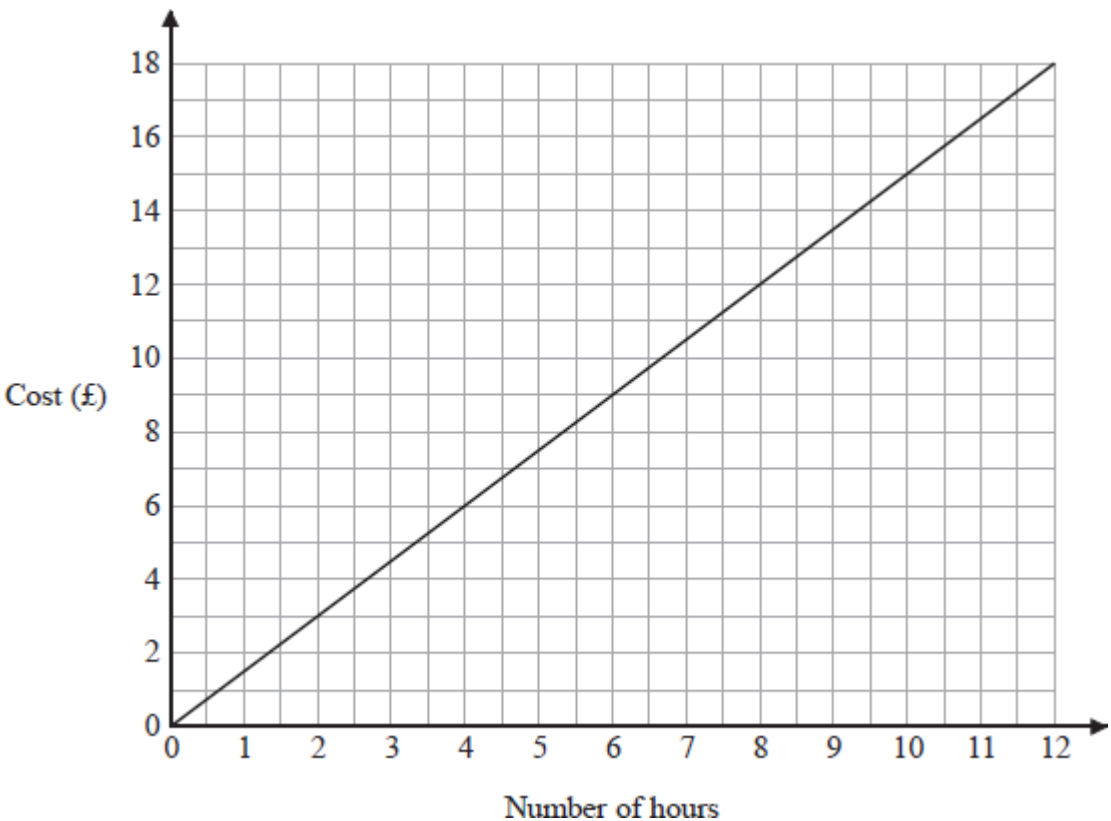
(a) Write down the next term of this sequence.

....
(1)

(b) Write down the ratio of the second term to the fifth term.
Give your ratio in its simplest form.

....
(2)

(Total for Question 9 is 3 marks)

10 This graph can be used to find the cost of hiring a boat on a lake for up to 12 hours.

(*a*) Use the graph to find the cost of hiring a boat for 6 hours.

£...
(1)

Michael hires a boat at 09 00 in the morning.
When he returns the boat he has to pay £12

(*b*) At what time does Michael return the boat?

....
(3)

(Total for Question 10 is 4 marks)

11 The table shows information about the weights of the people in a gymnasium.

Weight	Number of people
40 kg	2
50 kg	3
60 kg	5
70 kg	6
80 kg	4
90 kg	2

Show that the total weight of the people in the gymnasium is less than 1500 kg.

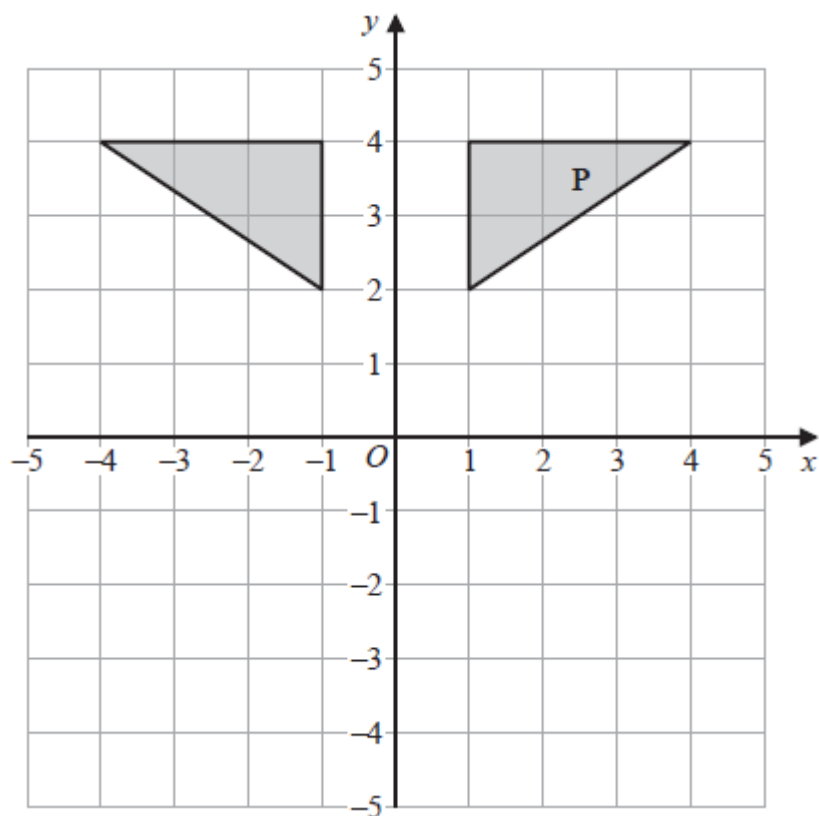**(Total for Question 11 is 3 marks)**

12 Shape **A** is reflected in a mirror line to give shape **B**.
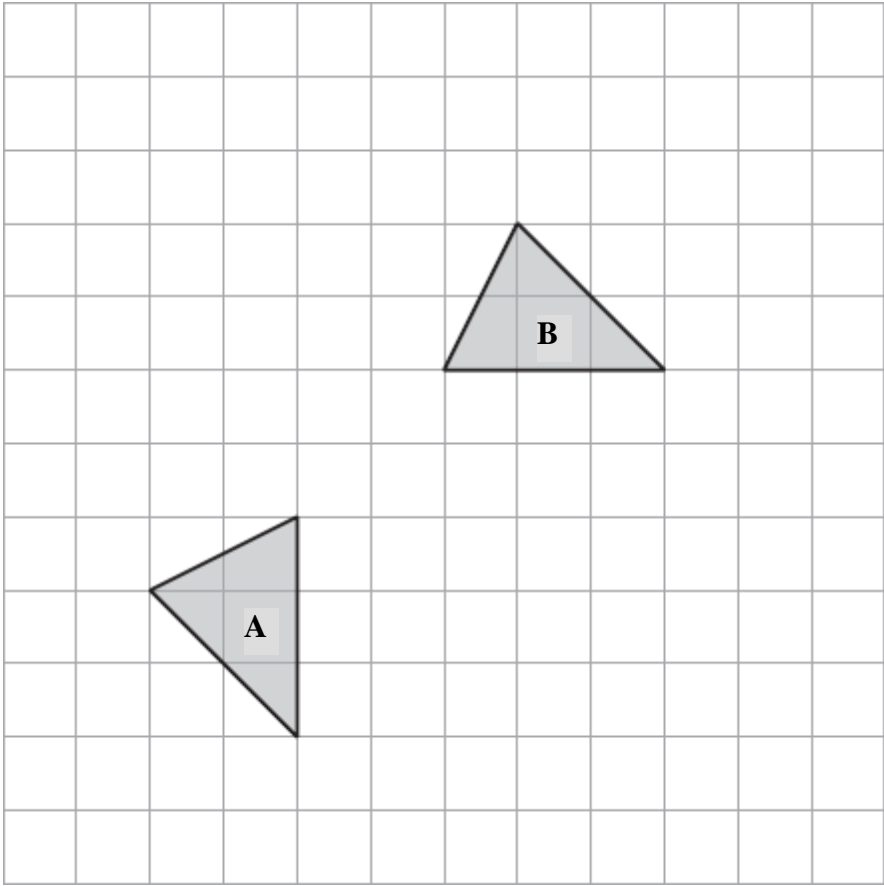
(*a*) On the grid, draw the mirror line.

(1)

(*b*) Andrew is asked to reflect shape **P** in the *x*-axis.
Here is the diagram Andrew draws.

Explain the mistake Andrew has made.

....

....

....

(1)

(Total for Question 12 is 2 marks)

13 There are 65 doctors in a hospital.

This is $\dfrac{1}{15}$ of the total number of people in the hospital.

Work out the total number of people in the hospital.

....

(Total for Question 13 is 2 marks)