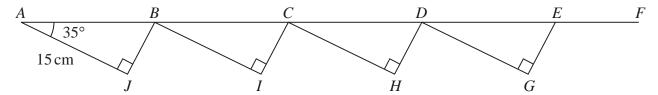
1 The diagram shows four congruent right-angled triangles *ABJ*, *BCI*, *CDH* and *DEG*. The diagram also shows the straight line *ABCDEF*.

Diagram **NOT** accurately drawn



$$AJ = 15 \text{ cm}$$

Angle $BAJ = 35^{\circ}$

$$AF = 80 \,\mathrm{cm}$$

Work out the length of *EF*.

Give your answer correct to 3 significant figures.

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2 The diagram shows five shaded shapes on a grid of squares.

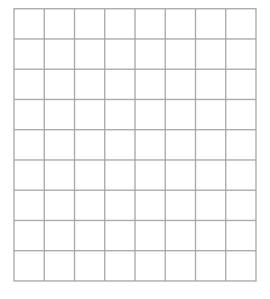
A	В	C	D	E

Two of the shapes are congruent.

(a) Write down the letters of these sh
--

 and	
	(1)

(b) On the square grid below, draw a shape that is similar to but is **not** congruent to shape **B**.



(2)

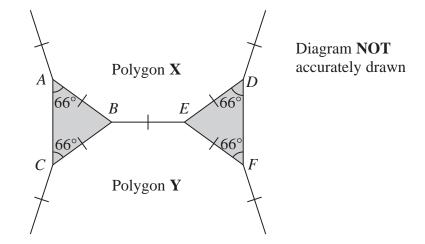
All of the shapes on the grid have 6 sides.

(c) Write down the mathematical name for a shape that has 6 sides.

(1)

(Total for Question 2 is 4 marks)

3 The diagram shows two congruent isosceles triangles and parts of two congruent regular polygons, X and Y.

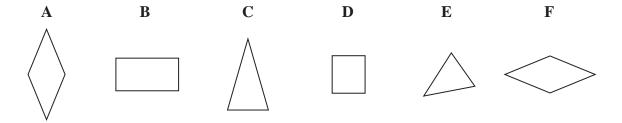


The two regular polygons each have n sides.

Work out the value of n.

 $n = \dots$

4 Here are six shapes.



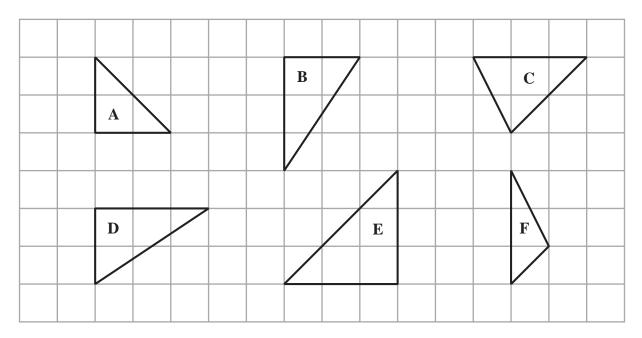
Two of these shapes are congruent.

(c) Write down the letters of these two shapes.

 and	
	(1)

(Total for Question 4 is 1 marks)

5 Here are six triangles drawn on a grid of squares.



Two of these triangles are congruent.

(c)	Write	down	the	letters	of	these	two	triangle	s.
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 and
(1)

(Total for Question 5 is 1 marks)