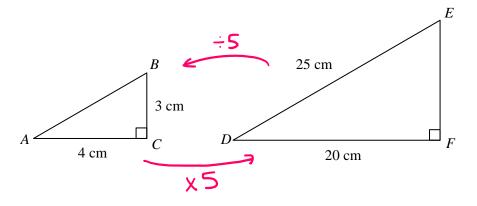


SCAN ME

## Similar Shapes

## REVISE THIS TOPIC

Triangle ABC and Triangle DEF are similar.



(a) Write down the scale factor of enlargement from triangle ABC to triangle DEF.

(b) Work out the length of EF.

(c) Work out the length of AB.

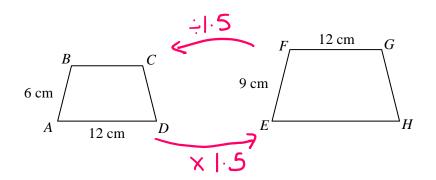
$$25 \div 5$$



(Total for Question 1 is 5 marks)



2 Trapezium ABCD and Trapezium EFGH are similar.



(a) Write down the scale factor of enlargement from Trapezium ABCD to Trapezium EFGH

1.5

(b) Work out the length of *EH*.

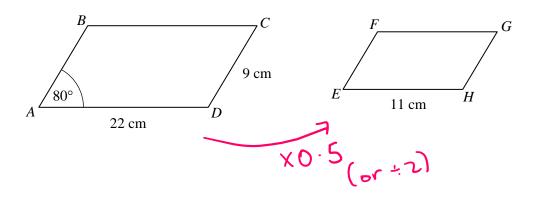
\_\_\_\_\_em

(c) Work out the length of *BC*.



(Total for Question 2 is 5 marks)

3 Parallelogram *ABCD* and Parallelogram *EFGH* are similar.



(a) Write down the scale factor of enlargement from Parallelogram ABCD to Parallelogram EFGH

0.5

(b) Work out the length of *GH*.

4.5 cm

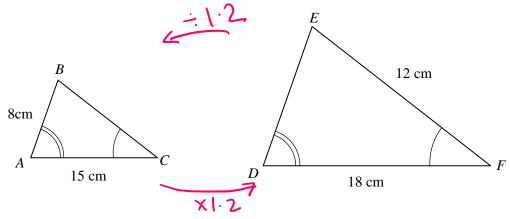
(c) Write down the size of angle FEH.



(Total for Question 3 is 4 marks)



4 Triangle *ABC* and Triangle *DEF* are similar.



(a) Write down the scale factor of enlargement from Triangle ABC to Triangle DEF.

1.2

(b) Work out the length of *DE*.

(2) cm

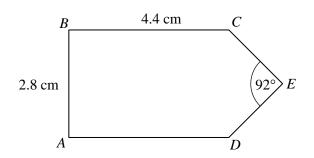
(c) Work out the length of *BC*.

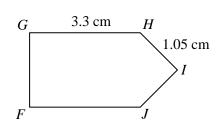


(Total for Question 4 is 5 marks)



5 Shape *ABCDE* and Shape *FGHIJ* are similar.





(a) Work out the length of GF.

2.\ (2) cm

(b) Work out the length of CE.

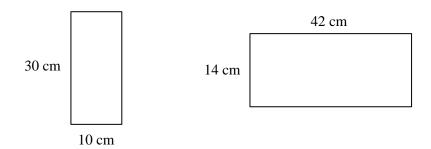
\_\_\_\_\_em

(c) Write down the size of angle HIJ.

92

(Total for Question 5 is 5 marks)

**6** Here are two rectangles.



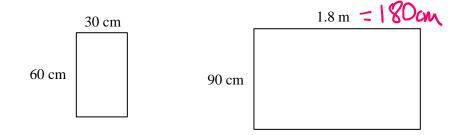
Show that these rectangles are mathematically similar.

$$14 \div 10 = 1.4$$
  
 $42 \div 30 = 1.4$ 

All sides have been enlarged by the same scale factor so the shapes are similar.

(Total for Question 6 is 2 marks)

7 Here are two rectangles.



Show that these rectangles are mathematically similar.

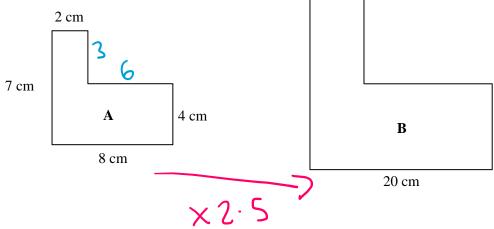
$$90 \div 30 = 3$$
  
 $180 \div 60 = 3$ 

All sides have been enlarged by the same scale factor so the shapes are similar.

(Total for Question 7 is 2 marks)



## 8 Shape A and Shape B are similar.



Work out the perimeter of shape **B**.

$$20 \div 8 = 2.5$$
  $8-2=6$   $7-4=3$ 

$$30 \times 2.5 = 75$$

75

(Total for Question 8 is 4 marks)