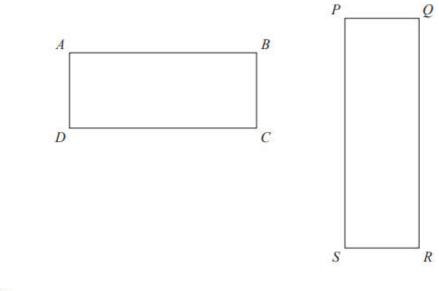
SIMILAR SHAPES (LENGTH)

Pearson Edexcel - Tuesday 21 May 2019 - Paper 1 (Non-Calculator) Foundation Tier

1.

28 Here are two rectangles.



QR = 10 cmBC = PQ

The perimeter of *ABCD* is 26 cmThe area of *PQRS* is 45 cm^2

Find the length of AB.

.... cm

(Total for Question 28 is 4 marks)

Pearson Edexcel - Tuesday 6 November 2018 - Paper 1 (Non-Calculator) Foundation Tier

2.

16 Here are two rectangles.



Jim says,

"The two rectangles are similar because 8 + 4 = 12 and 6 + 4 = 10"

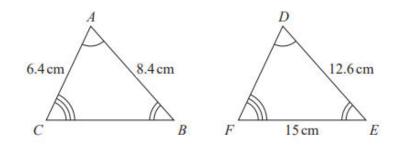
Is Jim correct? Explain your answer.

(Total for Question 16 is 1 mark)

Pearson Edexcel - Tuesday 12 June 2018 - Paper 3 (Calculator) Foundation Tier

3.

27 Triangle ABC and triangle DEF are similar.



(a) Work out the length of DF.

(2) cm

(b) Work out the length of CB.

.. cm

(2)

(Total for Question 27 is 4 marks)

Pearson Edexcel – Specimen 2 - Paper 2 (Calculator) Foundation Tier

4.

9 The smallest angle of a triangle is 25° The triangle is enlarged by scale factor 3

Ben says,

```
"The smallest angle of the enlarged triangle is 75^{\circ} because 25 \times 3 = 75"
```

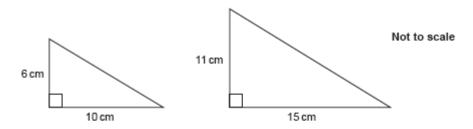
Is Ben right? Explain your answer.

(Total for Question 9 is 1 mark)

OCR Tuesday 11 June 2019 – Morning (Calculator) Foundation Tier

5.

25 Are these two triangles mathematically similar? Show how you decide.

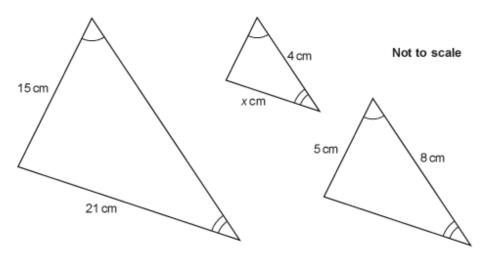


because
[3]

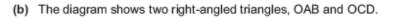
OCR Thursday 7 June 2018 – Morning (Non-Calculator) Foundation Tier

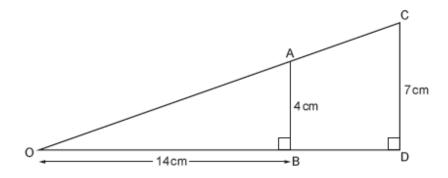
6.

20 (a) Here are three similar triangles.



Work out the value of x.



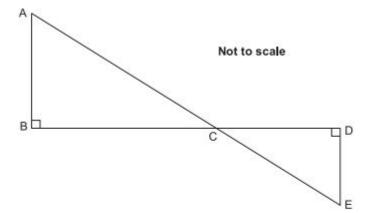


Work out the length of BD.

(b) cm [3]

OCR Sample Question Paper 3 – Morning/Afternoon (Calculator) Foundation Tier

- 7.
- 15 In the diagram below, AE and BD are straight lines.



(a) Show that triangles ABC and EDC are similar.

•••••••••••••••••••••••••••••••••••••••	
	[3]

(b) The length DE is 3.5m. The ratio BC : CD = 3 : 1.

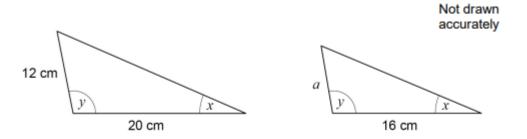
Find the length AB.

(b) m [2]

AQA Monday 8 June 2020 – Morning (Calculator) Foundation Tier

8.

26 These two triangles are similar.



Work out the value of a.

[2 marks]

Answer _____ cm

AQA Thursday 24 May 2018 – Morning (Non-Calculator) Foundation Tier

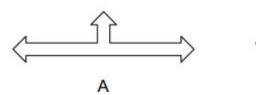
9.

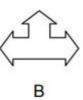
4 Which shape is similar to shape X?

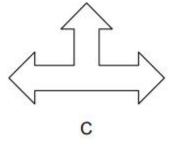


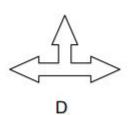
Circle the correct letter.

[1 mark]





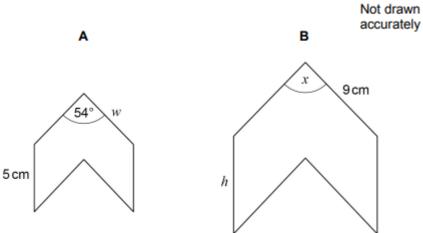




AQA Tuesday 12 June 2018 – Morning (Calculator) Foundation Tier

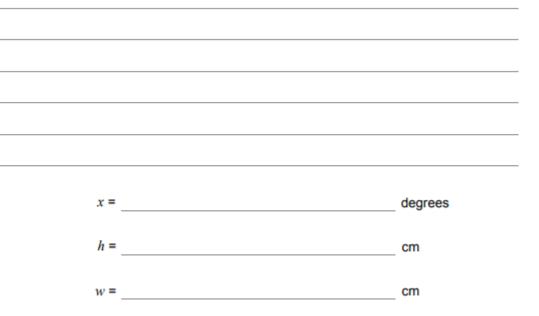
10.

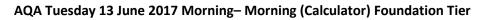
A and B are similar shapes.B is an enlargement of A with scale factor 1.5



Work out the values of x, h and w.

[3 marks]





11.

