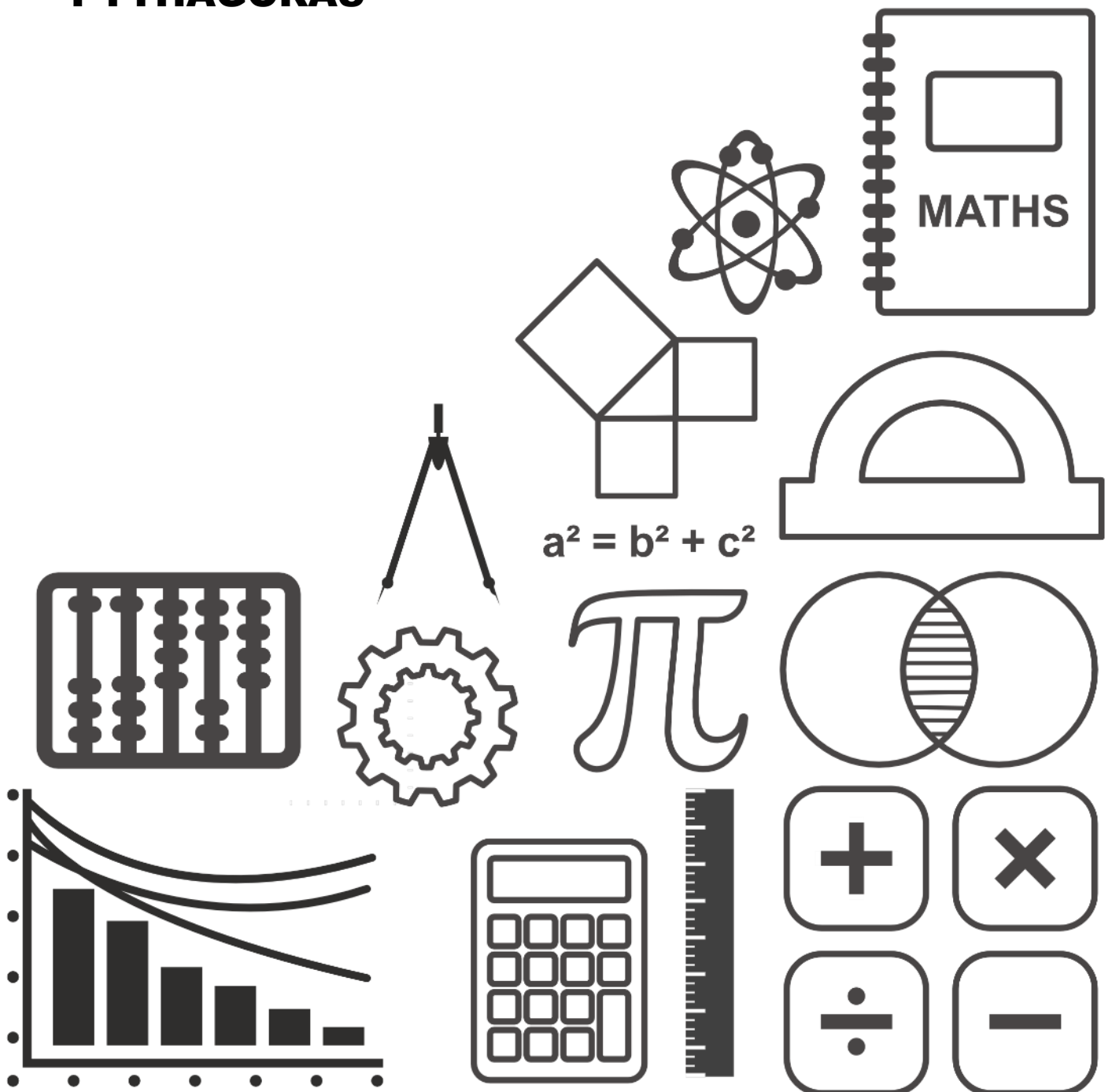
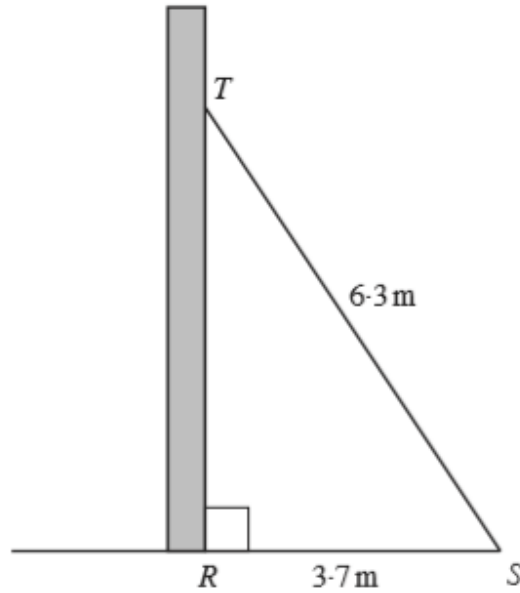


MATHSDIY

GCSE TOPIC BOOKLET PYTHAGORAS



1. A ladder, ST , of length 6.3 m rests against a vertical wall. The foot of the ladder S is on horizontal ground, 3.7 m from the base of the wall. Calculate the height, TR , of the top of the ladder above the ground, giving your answer to an appropriate degree of accuracy.



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[3]

2.

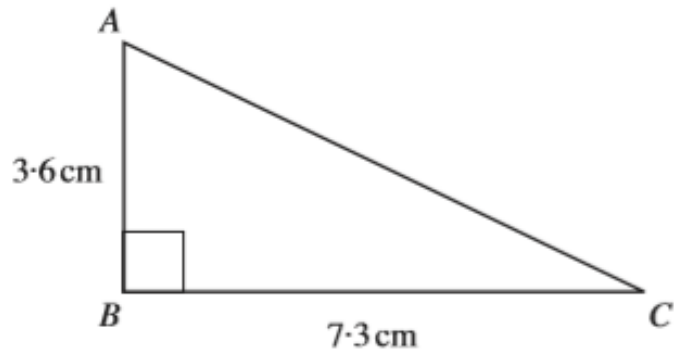


Diagram not drawn to scale.

Find the length of AC .

Give your answer to an appropriate degree of accuracy.

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[4]

3.

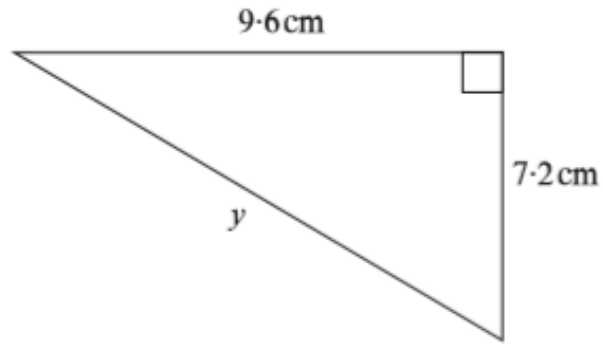


Diagram not drawn to scale

Calculate the length of the side marked y .

[3]

4.

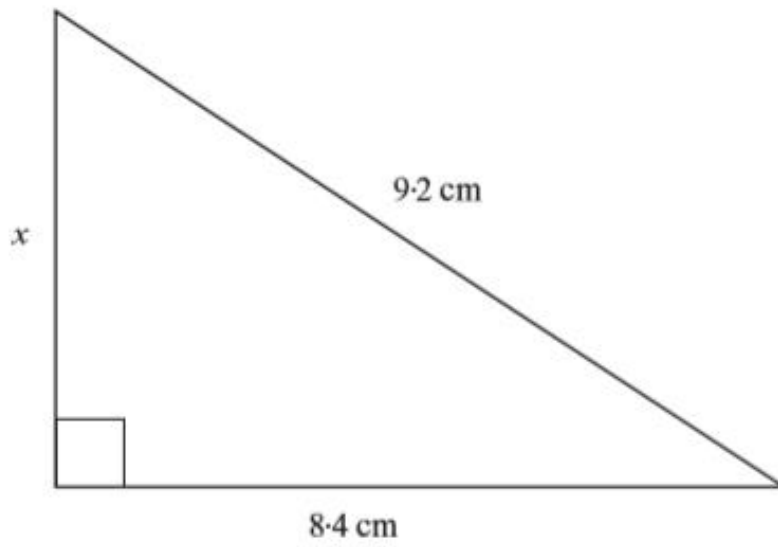


Diagram not drawn to scale

Calculate the length of the side marked x .

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[3]

6. The diagram shows three points A , B and C , which are on level ground.
 The point B is 55m due East of A .
 The point C is due North of A and 95m from B .

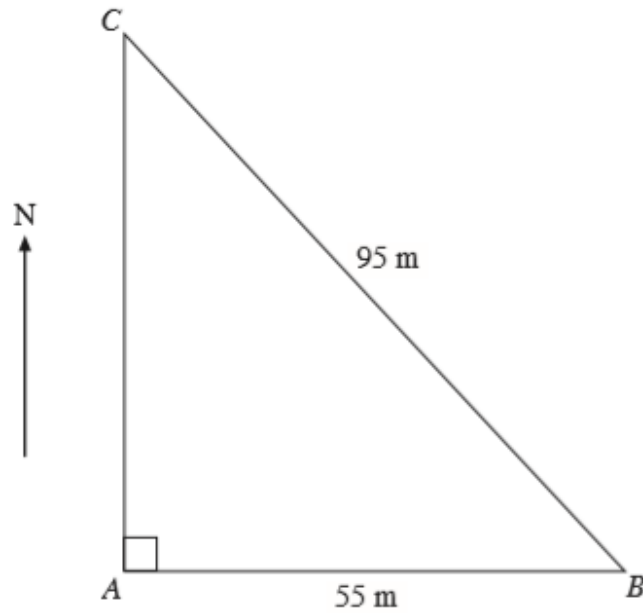


Diagram not drawn to scale.

Calculate the distance AC , giving your answer to an appropriate degree of accuracy.

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[4]

7.

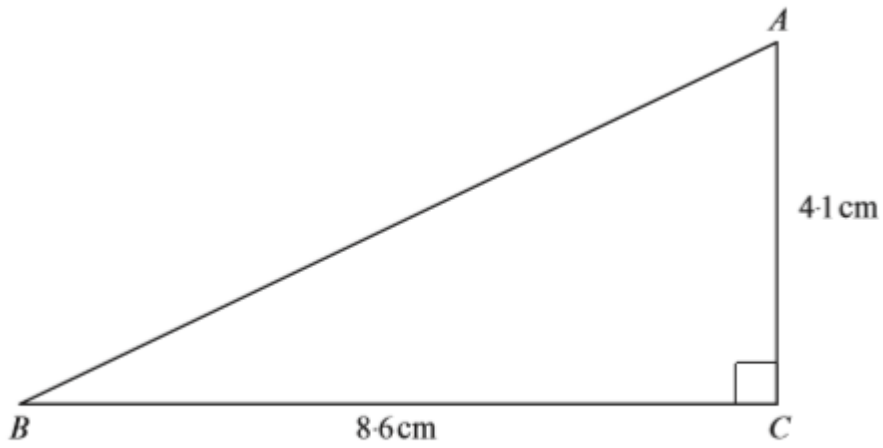


Diagram not drawn to scale

Calculate the perimeter of the triangle ABC , giving your answer correct to 2 significant figures.

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[5]

8.

- (a) The length and width of rectangular television screens are often in the ratio 4 : 3. Calculate the length of the shorter side of such a television screen when the longer side is 36 inches long. [2]

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- (b) The 'size' of a television screen, given in inches, is the length of the diagonal, as shown in the diagram below.

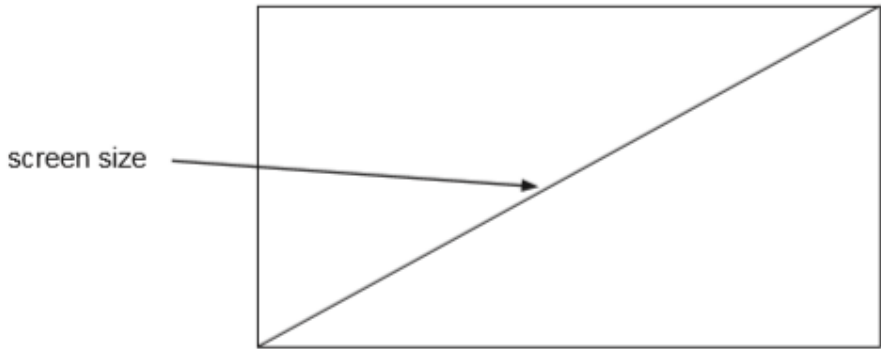


Diagram not drawn to scale

Calculate the screen size of the television described in part (a). [3]

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9.

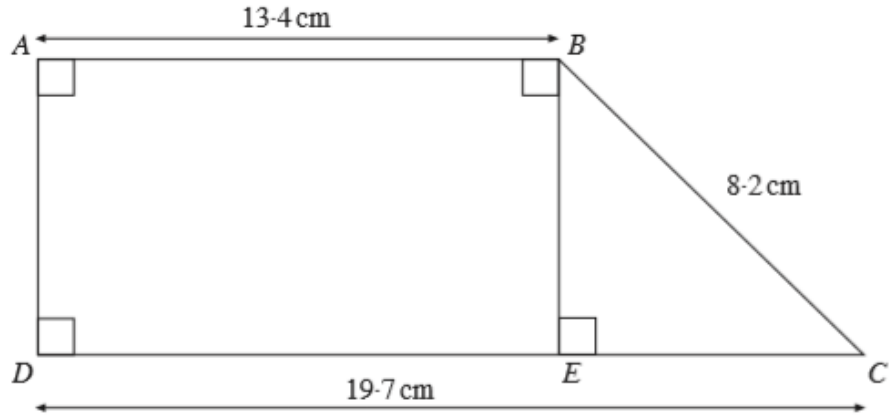


Diagram not drawn to scale.

Calculate the area of the trapezium ABCD.

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[7]