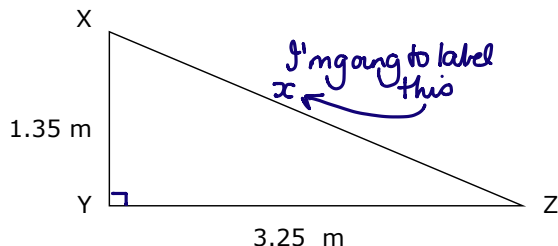


Pythagoras' Theorem

How to ...

XYZ is a right angled triangle



Calculate the length of XZ. *— this is the longest side!*

Give your answer correct to 3 significant figures.

$$x^2 = 1.35^2 + 3.25^2$$

$$= 12.385$$

$$x = \sqrt{12.385}$$

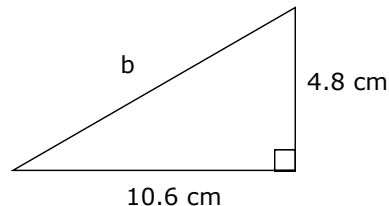
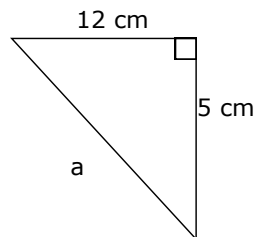
$$= 3.519232871$$

(3)

$$XZ = \underline{\underline{3.52\text{ m}}}$$

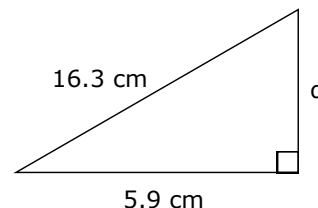
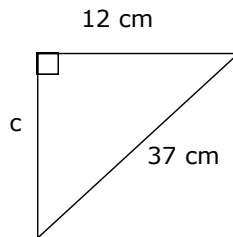
Now have a go yourself ...

1) Work out the length of each hypotenuse marked with a letter - giving your answer correct to 3 significant figures.



2) In triangle PQR, angle R = 90°, PR = 5.9 cm and QR = 13.1 cm. Work out the length of PQ. Give your answer correct to 3 significant figures.

3) Work out the lengths of the sides marked with letters in the triangles below. Give your answer correct to 3 significant figures.



4) In triangle DEF, angle E = 90°, DF = 10.1 cm and EF = 7.8 cm. Work out the length of DE. Give your answer correct to 3 significant figures.

HINT: if you aren't given a diagram draw your own.

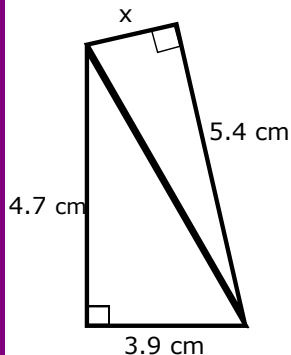
Exam Questions

1) A boat travels due North for 5.8 km. It then turns and travels due West for 7.2 km. Work out the distance between the boats finishing point and its starting point.

Give your answer in km, correct to 2 decimal places

(3)

2) The diagram shows two right angled triangle. Work out the length of the side marked x . Give your answer correct to 3 significant figures.



Ready to be marked ?

Checklist



Answer checked



Working out shown



Keywords

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.....

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Things to remember ...

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What went well ...

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.....

Teacher comment ..