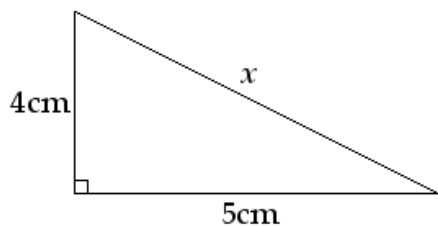


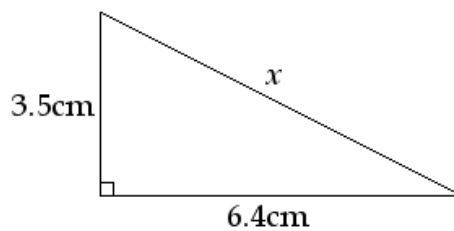
## Pythagoras Worksheet

Find the lengths of the unknown sides in the following right-angled triangles

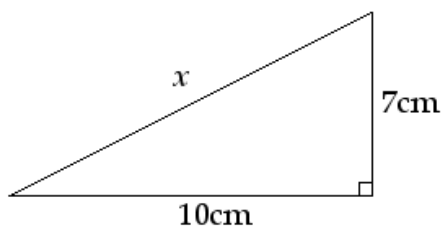
1.



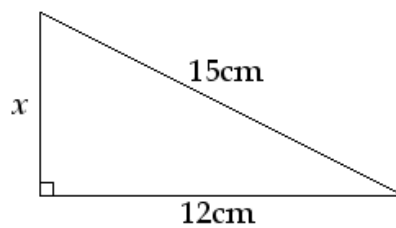
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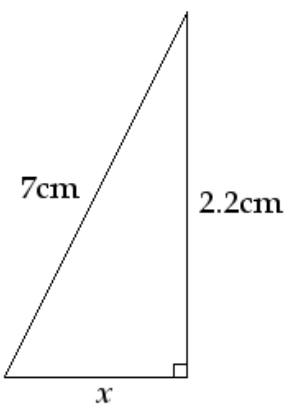
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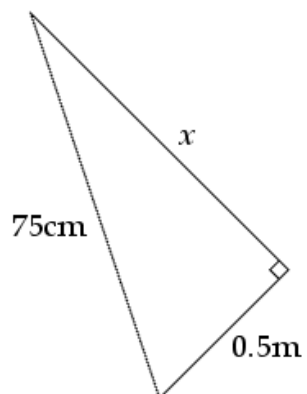
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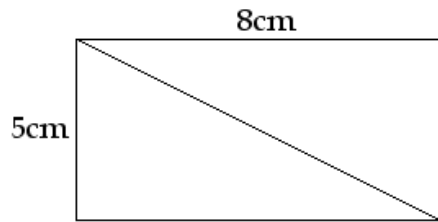
5.



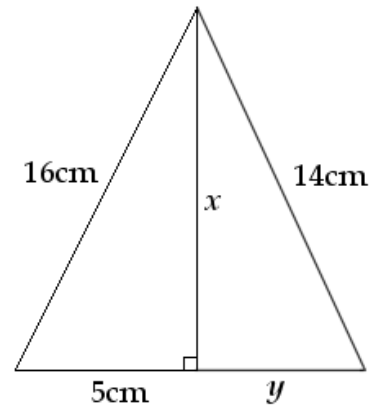
6.



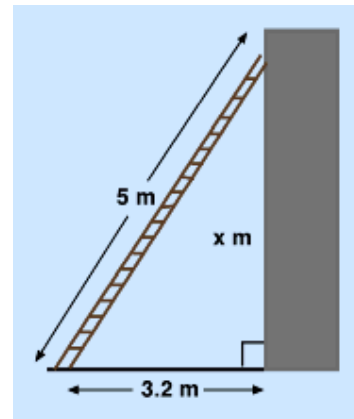
7. Find the length of the diagonal of the rectangle



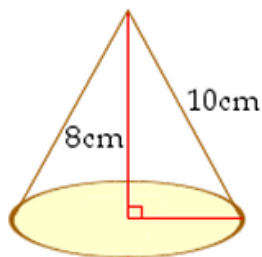
8. Find the unknown sides



9. A 5 metre ladder is positioned 3.2 metres from a building, as shown in the diagram. Will the ladder reach a window which is 4 metres from the ground?

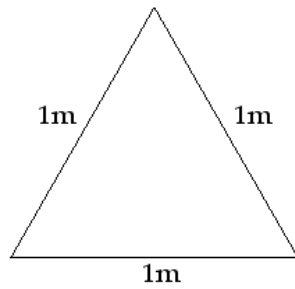


10.

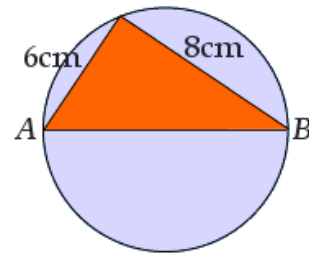


A cone is shown. Find the diameter of the cone.  
*Hint: the diameter is twice the length of the radius*

11. Find the perpendicular height of the equilateral triangle shown



12. AB is the diameter of the circle shown.  
Find the radius of the circle



**13. HARDER PROBLEM**

The diagram shows a cube of side  $5\text{cm}$ . Find the length of  $AB$ .

*Hint:- All sides of the cube are  $5\text{cm}$ . You will need to use Pythagoras twice: find one side and then use it to find  $AB$*

