## Pythagoras Worksheet

Find the lengths of the unknown sides in the following right-angled triangles
1.

3.

5.

2.

4.

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 cm . Find the length of $A B$.

Hint:- All sides of the cube are 5 cm . You will need to use Pythagoras twice: find one side and then use it to find $A B$


