**Unit 3 Pythagorean Relationship**

VIDEO: <http://www.youtube.com/watch?v=8QwJyF8sf-4>

**3.4 – Using the Pythagorean Relationship**

17cm

*c*

914cm2

*P*

*r* =15m

*q* = 12m

*a*=3cm

The Pythagorean relationship can be used to determine the leg length of a right triangle when the lengths of the hypotenuse and the other leg are known:

The Pythagorean relationship can be used to determine the length of the hypotenuse of a right triangle when the lengths of the two legs are known:

The right triangle below has a square attached to its hypotenuse. What is the perimeter of the triangle? Give you answer to the nearest tenth of a centimetre

*b*=4cm