

Strand: 4: Geometry

Sub strand: Pythagoras Theorem

Content Learning Outcome

- Study and discuss Pythagoras Theorem and how it is applied to any given right angled triangle.

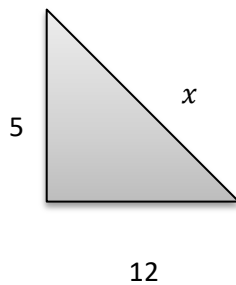
Achievement Indicator

Identify the properties of right angle triangle

Prove Pythagoras theorem

Example

1. Find the unknown sides in the given triangles given below



$$a^2 + b^2 = c^2$$

$$5^2 + 12^2 = x^2$$

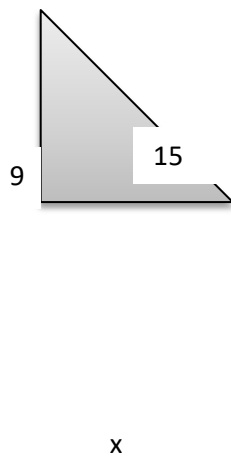
$$25 + 144 = x^2$$

$$x^2 = 169$$

$$x = \sqrt{169}$$

$$x = 13$$

2. Calculate the remaining side



$$a^2 + b^2 = c^2$$

$$9^2 + x^2 = 15^2$$

$$x^2 = 225 - 81$$

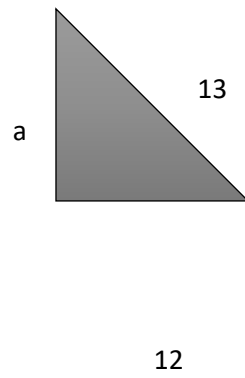
$$x^2 = 144$$

$$x = \sqrt{144}$$

$$x = 12$$

Activities

1. Find the value of a



2. Find the value of c

