## Master Maths 9 Worksheet 72 Pythagoras' Theorem 2

## <u>Name:</u>



- **1.** Circle three numbers in the following set that form a Pythagorean triad.
  - 15 17 21 36 38 39
- **2.** Perform these calculations.



**3.** Find the unknown sides in these triangles.



**4.** Mary went bushwalking. She walked 7.2 km due north and then 8.4 km due east. How far was she from her starting point?



**5.** A flying fox is to be made between pole A on the ground and pole B on top of a 30 m high cliff. Pole A is 100 m from the base of the cliff and both poles are 3 metres long.



What length of cable is required between the tops of poles A and B?



6. A *cube* of side length 5 cm is shown below.

