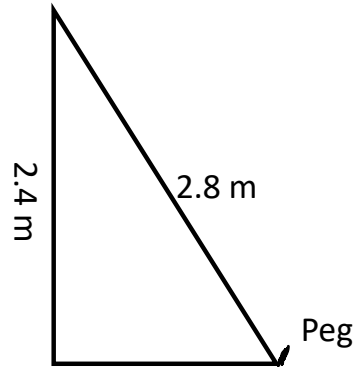1. A marquee has been set up for a hui.
   The guy ropes are all set at 2.8 metres long. The marquee walls are 2.4 metres high.
   How far out from the tent are the pegs?

2.4 m

2.8 m

Peg

2. The road designer claims that the Uira Expressway is over 10 kilometres shorter than the old route from Rangimarie to Aroha.
   Are they correct?
   Use Pythagoras Theorem to check their claim.

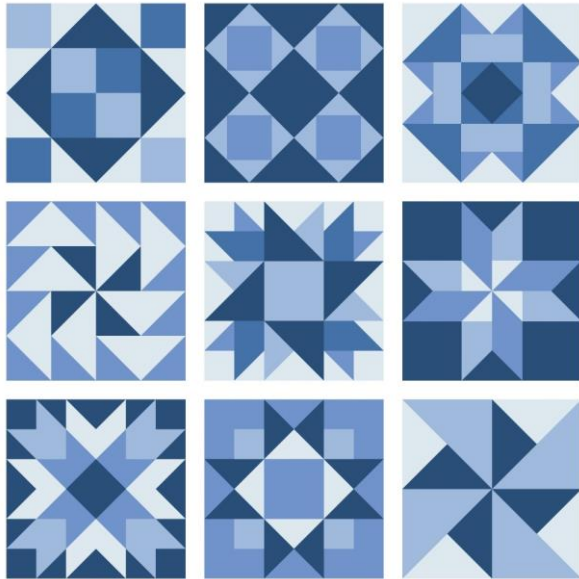Rangimarie

Treaty Road

?

25.9 km
Uira Expressway

19.3 km

Henare Road

Aroha

nzmaths.

3. The side length of each square block measures 20 cm.
    Find the side lengths of five different-sized right-angled triangles in the quilting pattern.

4. Poppa's Pizzas come in a special box that has corners.
    The pizza moves around less as it is delivered.
    Use the measurements for the hypotenuse of each triangle to work out the length of side d.

    Small

    d

    8.28 cm

    Medium

    d

    12.43cm

    Large

    d

    14.5cm

nzmaths.