

Pythagoras Theorem – Answers

Pythagoras Theorem

- 1) $x = 13$ $y = 9.80$ $p = 10.91$ $q = 17$
 $a = 9$ $b = 15.23$ $c = 29$ $d = 3.87$
- 2) Height = 8cm, area = 48cm²
- 3) 2.75m
- 4) XY = 5 units
- 5) 111.2cm²

Pythagoras Problems

- 1) 8.06m
- 2) 60cm²
- 3) 9cm
- 4) 8.49km
- 5) 20.8cm²
- 6) 7.5cm
- 7) PR = 17.0cm, QR = 12cm
- 8) PQ = 2 $\frac{1}{4}$ cm, QR = 3 $\frac{3}{4}$ cm
- 9) (a) 4cm (b) 5cm (c) 16cm²
- 10) 15m

Pythagoras Questions in 3D

- 1) (a) BE = 20cm (b) BH = 20.9cm
- 2) (a) DM = $\sqrt{72} = 8.49$ cm (b) VM = $\sqrt{28} = 5.29$ cm (c) VX = 8cm
 (d) $(\sqrt{28})^2 + 6^2 = 8^2$ ie 28 + 36 = 64
- 3) (a) 11.3cm (b) 5.66cm (c) 7.55cm