

# Pythagoras' Theorem Solutions

- $w = 5$
  - $x = 10$
  - $y = 12$
  - $z = 4\sqrt{6}$  or 9.8
  - $g = \sqrt{109}$  or 10.44
  - $h = 20$
  - $i = 1$
  - $j = 1$
  - $k = 3$
  - $x = 1$
- NO,  $8^2 + 4^2 \neq 10^2$
  - YES,  $\sqrt{3}^2 + 1^2 = 2^2$
- 120cm
- $\sqrt{2}$  or 1.414
- $2\sqrt{2}$  or 2.828,  $\theta = 90^\circ$  as both triangles are isosceles.
- $\sqrt{493}$  or 22.2m