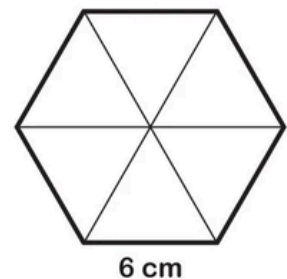


# Pythagorean Theorem Problem Solving Worksheet

*Give answers to 2 decimal places.*

- 1) An A4 piece of paper measures 210 mm by 297 mm.
  - a. Calculate the length of the diagonal of an A4 piece of paper.
  
  
  
  
  
  
  
  
  
  
  - b. Measure the length of the diagonal of an A4 piece of paper to check your answer to Part a.
  
- 2) How long is the diagonal of a square with sides 10 cm?
  
  
  
  
  
  
  
  
  
  
- 3) Find the area of an isosceles triangle whose sides are 9 cm, 9 cm and 8 cm.

- 4) Calculate the area of a regular hexagon whose sides measure 6 cm.



- 5) A ladder, 10 m long, leans against a wall. The foot of the ladder is 2 m away from the bottom of the wall. Calculate how far the ladder reaches up the wall.

