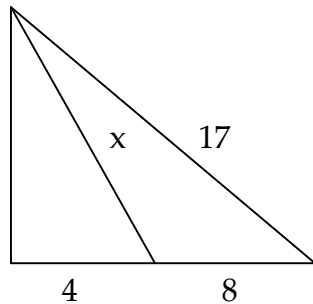


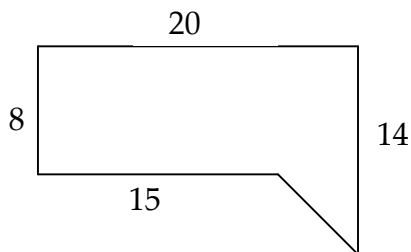


Pythagoras' Theorem Solving Problems

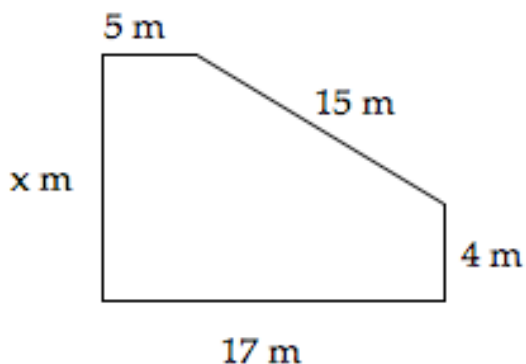
- 1 The top of a kitchen table measures 160 cm by 90 cm. An ant walks diagonally across the table. How far does the ant walk correct to the nearest cm?
- 2 How high up a wall can a 20 m ladder reach when it is placed 2 m from the foot of a wall? Give your answer correct to 1 decimal place.
- 3 A rectangular garden bed measures 3.7 m by 50 cm. Find the length of the diagonal in cm?
- 4 A road sign is in the shape of an equilateral triangle with sides 600 mm. Find the area of the sign correct to the nearest cm^2
- 5 Calculate x in the figure below correct to 1 decimal place.



- 6 Find the perimeter of the shape below to 1 decimal place



- 7 Find the value of x



Answers

1 183 cm

2 19.9 m

3 373 cm

4 1558 cm²

5 12.7

6 64.8

7 13 m