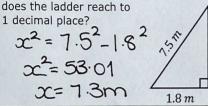
## **Pythagoras' Theorem Worded Problems**

(a)

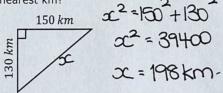
(b)

(c)

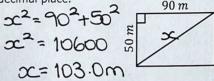
A ladder which is 7.5 m long, leans against a wall. The foot of the ladder is 1.8 m from the foot of the wall. How far up the wall



A ship sails 150 km west, then turns and sails 130 km south. How far from its original position is the ship now, to the nearest km?

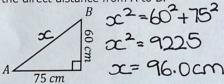


A football pitch is 90 m by 50 m. Find the length of the diagonal of the pitch to 1 decimal place.



(d)

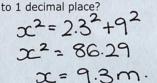
A snail starts at point A and travels 75 cm east and then 60 cm north to point B. Find the direct distance from A to B.



(e)

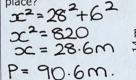
x

A ladder leans against a wall. The foot of the ladder is 2.3 m from the foot of the wall, and the ladder reaches 9 m up the wall. How long is the ladder,



(f)

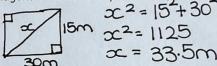
A farmer has a field in the shape of a trapezium, as shown. He wants to put a fence all the way around the field. How long will the fence need to be, to 1 decimal place?





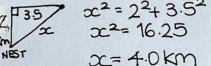
(g)

A netball pitch is 15 metres wide and 30 metres long. Find the length of the diagonal to 1 decimal place.



(h)

A bird flies from its nest 2 km due north, then 3.5 km due east. Find the distance of the bird from its nest after its flight.



(i)

