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| **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 does the ladder reach to 1 decimal place? | 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)** | **(e)** | **(f)** |
| 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. | 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, to 1 decimal place? | 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)** | **(h)** | **(i)** |
| A netball pitch is 15 metres wide and 30 metres long. Find the length of the diagonal to 1 decimal place. | 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. | A ladder of length 8.2 m leans against a wall. The ladder reaches 6.9 m up the wall. How far is the foot of the ladder from the foot of the wall? |