

Match-Up	Pythagoras Worded Problems
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1	A ladder is placed 1.5 m from the foot of a wall. The ladder reaches 3.8 m vertically up the wall. How long is the ladder in metres?
2	A netball court is 30.5 m long by 15.3 m wide. How long in metres is the diagonal of the court?
3	Find the distance between the coordinates $(5, 2)$ and $(9, 12)$.
4	A canoe travels 5.5 km north then turns and travels 3.1 km east. It then turns and travels directly to its original position. How far in km has it travelled in total?
5	A bird sits on the ground, 26 m away from the base of a fir tree. The tree is 18 m tall. How far in metres is the bird from the top of the tree?
6	A ladder is 3.9 m long. The foot of the ladder is 1.7 m from the foot of a wall. How far in metres up the wall does the ladder reach?
7	A hiker sets off from home and walks 6 km south and then 7.6 km east. If he wishes to return directly home, how much further would he have to hike in km?
8	The diagonal of a tennis court measures 25.2 m . If the width of the court is 8.2 m , what is the length of the court in metres?
9	Find the distance between the coordinates $(2, -1)$ and $(0, -9)$.
10	Find the area in cm^2 of an isosceles triangle with sides of length 8 cm , 9 cm and 9 cm .

A	23.8
B	10.8
C	31.6
D	4.1
E	9.7
F	8.2
G	14.9
H	3.5
I	32.2
J	34.1

[illegible]