Match-Up — Pythagoras Worded Problems

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

1	2	3	4	5	6	7	8	9	10