



# Match-Up



## Pythagoras Worded Problems

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

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

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>D</b>	<b>J</b>	<b>B</b>	<b>G</b>	<b>C</b>	<b>H</b>	<b>E</b>	<b>A</b>	<b>F</b>	<b>I</b>