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? |  | **A** | $$23.8$$ |
| **2** | A netball court is $30.5 m$ long by $15.3 m$ wide. How long in metres is the diagonal of the court? |  | **B** | $$10.8$$ |
| **3** | Find the distance between the coordinates $(5, 2)$ and $(9, 12)$. |  | **C** | $$31.6$$ |
| **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? |  | **D** | $$4.1$$ |
| **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? |  | **E** | $$9.7$$ |
| **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? |  | **F** | $$8.2$$ |
| **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? |  | **G** | $$14.9$$ |
| **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? |  | **H** | $$3.5$$ |
| **9** | Find the distance between the coordinates $(2, -1)$ and $(0, -9)$. |  | **I** | $$32.2$$ |
| **10** | Find the area in $cm^{2}$ of an isosceles triangle with sides of length $8 cm$, $9 cm$ and $9 cm$. |  | **J** | $$34.1$$ |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** |
|  |  |  |  |  |  |  |  |  |  |