Match-Up

**Trigonometry Worded Problems**

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| **1** | A ladder is placed from the foot of a wall. The ladder reaches vertically up the wall. Find the angle between the ground and the ladder in degrees. |  | **A** |  |
| **2** | A plane-spotter sees a plane in the sky at an angle of elevation of . The plane is a horizontal distance of from the plane-spotter. Find the vertical height of the plane in kilometres. |  | **B** |  |
| **3** | A bird sits on the ground away from the base of a Christmas tree. The angle of elevation from the bird to the top of the tree is . How tall is the tree in metres? |  | **C** |  |
| **4** | A ship sails for on a bearing of . How far North has the ship sailed in kilometres? |  | **D** |  |
| **5** | The angle of depression from the top of a cliff to a boat in the sea below is . What is the distance in from the top of the cliff to the boat? |  | **E** |  |
| **6** | A ladder makes an angle of with the ground. The distance of the foot of the ladder to the wall is . How long is the ladder in metres? |  | **F** |  |
| **7** | Find the area of this isosceles triangle in . |  | **G** |  |
| **8** | Malia is flying a kite on a long string. The string is at an angle of to the horizontal. Malia is holding the kite above the ground. Find the vertical height of the kite above the ground in metres. |  | **H** |  |

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| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** |
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