DAY 5 – Solve Word Problems
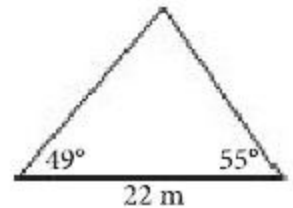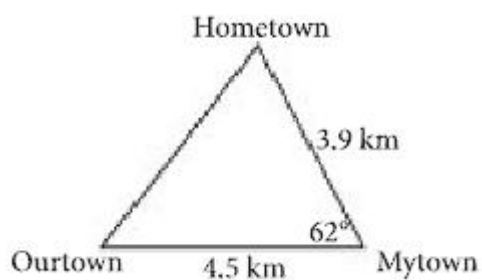
1. A triangular garden is to be enclosed by a fence. How much fencing will be required?

2. A 10 m ladder leans against a wall. The top of the ladder is 9 m above the ground. Safety standards call for the angle between the base of the ladder and the ground to be between 70° and 80°. Is the ladder safe to climb?

3. A golfer is faced with a shot that has to pass over some trees. The trees are 33 ft tall. The golfer finds himself 21 ft behind these trees, which obstruct him from the green. he decides to go for the green by using a 60° lob wedge. This club will allow the ball to travel at an angle of elevation of 60°. Did he make the right choice? Explain.

4. Three roads join Hometown, Mytown and Ourtown.
    a. What is the distance from Hometown to Ourtown?

Hometown

3.9 km

62°

Ourtown   4.5 km   Mytown

    b. What angles to the roads make at Hometown and Ourtown?

5. Two tracking stations, 5 km apart, track a weather balloon floating between them. The tracking station to the west tracks the balloon at an angle of elevation of 52°, and the station to the east tracks the balloon at an angle of elevation of 60°. How far is the balloon from the closest tracking station?