

Name \_\_\_\_\_

## Answer Key

1. The kite is approximately 75.56 meters high.
2. The ramp makes approximately a 18.43-degree angle with the ground.
3. The angle of elevation of the sun needs to be approximately 41.81 degrees.
4. The runway is approximately 9623.33 feet (or about 1.82 miles) away horizontally from the plane.
5. The wire should be approximately 12 feet long.
6. The building is approximately 25.83 feet tall.
7. The tower is approximately 65.38 meters tall.
8. The length of the third side is approximately 6 feet.
9. Ethan travels approximately 700.00 meters horizontally.
10. The angle the roof makes with the horizontal is approximately 33.69 degrees.