

Name _____ Date _____ Period _____

Projectiles - Review

Answer the following questions in the space provided. Show all work and circle your answer.

1. A bullet traveling 8.0×10^2 m/s horizontally hits a target 180. m away. How far does the bullet fall before it hits the target?

2. A student threw a ball horizontally out of a window 8.00 m above the ground. It was caught by another student who was 10.0 m away. What was the initial velocity of the ball?

3. A baseball was hit at 45 m/s at an angle of 45° above the horizontal.
 - a. How long did it remain in the air?

 - b. How far did it travel horizontally?

4. A camper dives from the edge of a swimming pool at water level with a speed of 8.00 m/s at an angle of 30.0° above the horizontal.
 - a. How long is the diver in the air?

 - b. How high does the diver go?

 - c. How far out in the pool does the diver land?