

P11

PROJECTILE MOTION AND FREE FALL – Practice

Name:_____

1. Find the maximum height of a 5.0 kg object that was thrown with initial velocity of 56 m/s [70° above horizontal].

2. How long does it take for an object to reach its maximum height if it was thrown with 35m/s [30° above horizontal].

3. How long does a projectile spend above ground if it lands at the same level it was launched from? The launching velocity was 85m/s at 60° above horizontal.

4. What is the time an object spent above ground if it landed 120 m below its launching point? The object was thrown with 67m/s 28° above horizontal.

5. What is the final velocity of a 10-kg object that landed 68 m below its launching level, provided that it was thrown with 125 m/s 70° above horizontal.

