

Standards: HS.P.D.21 _____

Name: _____ Period: _____ Date: _____

HS.P.D.21 Assessment

1. Kyle stands on top of a building and throws a ball horizontally from a height of 30 meters. He hopes the ball will reach a swimming pool that is at the bottom of the building, 12 meters horizontally from the edge of the building.

a. How long does it take the ball to hit the ground below?

b. How fast must he throw the ball for it to reach the pool?

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2. A marble with speed 13 m/s rolls off the edge of a table 10 meters high.

a. How long does it take the marble to hit the floor?

b. How far from the edge of the table does the marble hit the floor?