

Name _____

48 - At An Angle – Do Now

A pumpkin is launched with a catapult. It reaches a maximum height of 25 m. The horizontal component of its velocity is 20 m/s.

- a) What is the hang time?
- b) What are the horizontal and vertical components of the velocity at the end of the flight?
- c) What are the horizontal and vertical components of the velocity at the beginning of the flight?
- d) What is the range of the pumpkin?

Answers: a) 4.6 s b) Horizontal 20 m/s Vertical 22.5 m/s
c) Horizontal 20 m/s Vertical 22.5 m/s d) 92 m