

NAME:

PERIOD:

DATE:

## SPEED PROBLEMS 1

FOR ALL CALCULATIONS, if you want credit:

**WRITE FORMULA.**

**SHOW SUBSTITUTIONS.**

**LABEL ANSWER.**

**CIRCLE ANSWER.**

1. Morris the cat walked across the room in 10 seconds. The path he took was 2 meters long. What was his speed?

2. In order to describe Morris' speed as a **constant speed**, what would have had to have happened?

3. *The Mystery Machine was flying down the road towards Ghostville. Just as they passed the, "Welcome to Ghostville" sign, Velma noticed the radar detector was going off.*

*"Jinkies Fred! The cops got us!" she said.*

*Fred got a ticket for going 75 miles/hour.*

**Infer** from the story an instantaneous speed. Then explain how you know it is an instantaneous speed.

4. Leela and Fry need to deliver a package to the planet Chapek 9. Chapek 9 is 1,524 light years away, and they have 3 hours to deliver the package.

Bender says that the top speed of the ship is 500 light years/hour.

Can they make the delivery on time? Answer "Yes" or "No" then prove it with a calculation.

