

Name:

Date:

Period:

Motion and Forces

Questions:

Notes:

Distance - _____

_____ - how far from start to finish
(in a straight line in a specific direction)

_____ is how far an object moves in a certain
amount of _____

- _____ = _____ / _____
- _____ = _____ / _____

Measurements must be in _____:

Distance = _____ . _____ . _____

Time = _____ , _____ , _____ , _____

Examples = cars 75 km/hr , tectonic plate
movement = 1 cm/yr, track star = 0.8 m/s

_____ is measure of how fast something is
moving in a certain _____.

50 meters/second _____

- velocity = _____ / time
- $V = D / t$

_____ - *changing* _____ *or*

- _____ (positive acceleration)
- _____ (negative acceleration)

- Acceleration can be calculated in two ways:

- acceleration = _____
- acceleration = _____

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An airplane traveled 300 km northeast in 2 hours. Find the velocity of the plane.

A hockey puck slides on the ice for 3 seconds before crossing the goal line 6 meters away. What was the average speed of the puck?

You decide to throw a pen with a mass of 20 grams with a force of 40 N. What is the acceleration of the pen?

An object pushed with a force of 10 N travels 30 m in 60 s. What is the objects speed?

A paper airplane is traveling towards a student. The airplane travels 6 m in 2 s before hitting the student. What is the velocity of the plane?

If you wanted to make an object with a mass of 30 g accelerate at 5 m/s^2 , how much force would be required?

Summary: