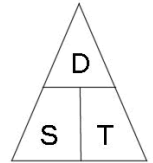# Physical Science   Speed and Graphing Review

KJHS   Name   Period

Show work, box your answer.

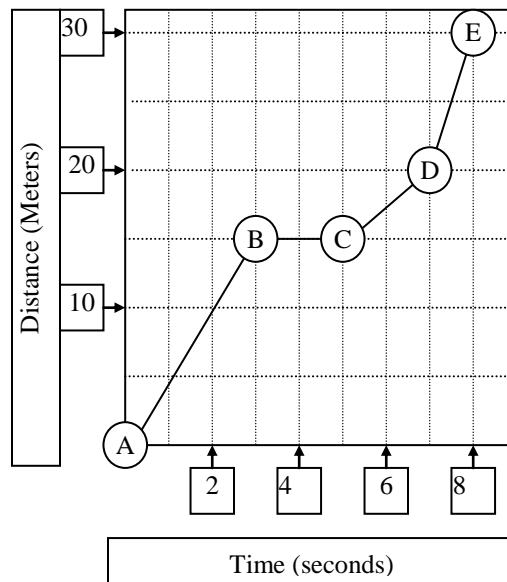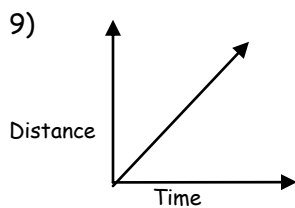|	
1. Tina's found that the spider was able to cover 20 centimeters in 5 seconds, what was the average speed of the spider?	3. If it takes Ashley 3 s to run from the batters box to first base at an average speed of 6 m/s, what is the distance she covers?
2. Bart ran 48 meters at a speed of 6 meters/second. How long did he run?	4. If Justin races his car for 120 meters in 6 seconds, what is his speed?

Between which letters is :

5. the object not moving at all?_____

6. the object moving fastest?_____
How do you know?_____
_____

7. Calculate the slope for line A-B
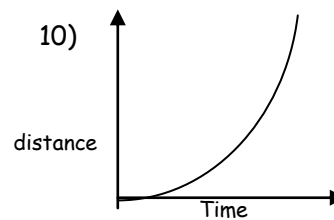show your work

Distance (Meters) vs Time (seconds)

8. A person rides his bike 100 meters in 2 hours, 80 meters in 2 hours, and then 60 meters in 4 hours. What is the rider's **average speed**? Show work and box your answer.

9)

Distance / Time

What is this graph showing? Circle one:
     a. accelerating
     b. constant speed
     c. stopped

10)

distance / Time
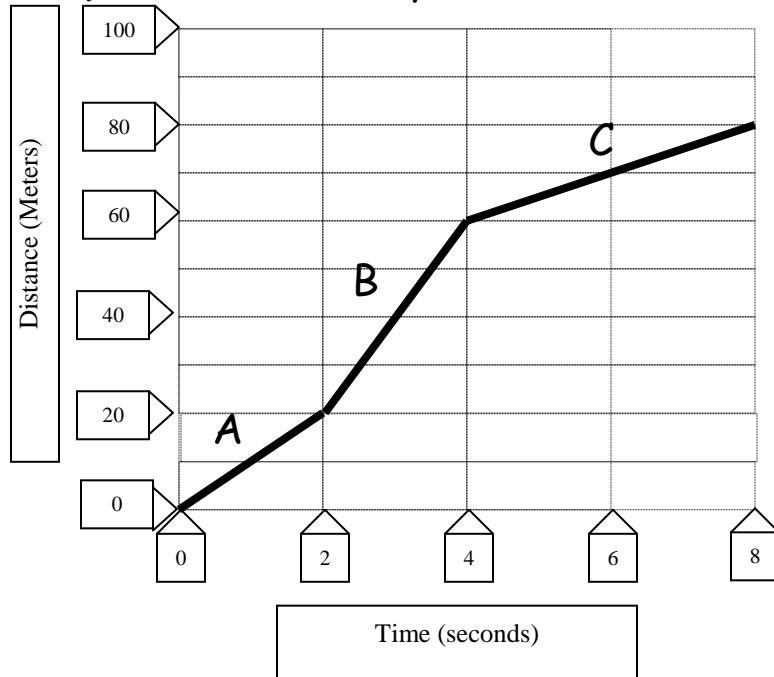
What is this graph showing? Circle one:
     a. accelerating
     b. constant speed
     c. stopped

11) **Calculate the slope for each (1pt each): Show work and box your answer.**

- A=

- B=

- C=

Distance (Meters): 100, 80, 60, 40, 20, 0

Time (seconds): 0, 2, 4, 6, 8

14. **What is the average speed?**
    for the graph

15. Matching: Write the letter in the space provided
    A. Moving at the same exact speed in a straight line
    B. Length of a path between two points
    C. Is speed in a given direction
    D. The state at which one object's distance from another is changing
    E. Total distance/total time
    F. A stationary object used to compare a moving object to
    G. Distance/Time
    H. Speed x Time
    I. Rate at which velocity changes with time
    J. Distance/Speed

    ____ Average Speed
    ____Motion
    ____Acceleration
    ____Constant Speed
    ____Reference Point
    ____Velocity
    ____Distance
    ____Formula for Speed
    ____Formula for Distance
    ____Formula for Time

16. Matching: Write the letter in the space provided
A. energy that is in motion
B. Gravitational potential energy depends on weight
    and its _____.
C. Stored energy
D. the ability to do work or cause change
E. Is done when an object is caused to move a certain distance
F. The more _____ an object has, the more potential
    energy it has
G. Kinetic energy depends on mass and _____

    ____ Mass
    ____ Energy
    ____Work
    ____Speed
    ____ Kinetic Energy
    ____Potential Energy
    ____Height