QUIZIZZ

NAME : _____

CLASS : _____

Relative Motion
20 Questions

DATE : _____

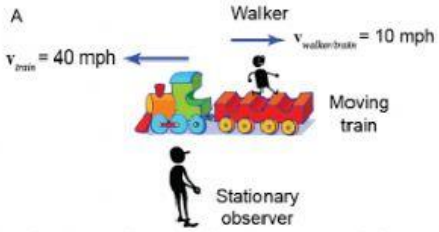
1. If a car passes you in the left lane going 90 km/hr north while you are driving 80 km/hr north, how fast is the car moving relative to your car?

170 km/hr

90 km/hr

80 km/hr

10 km/hr

2. 

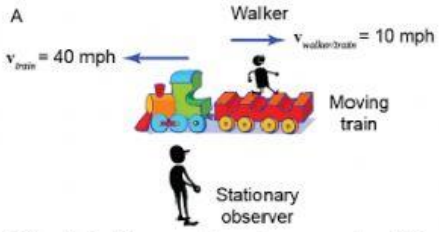
What is the walker's speed from the observer's perspective?

10 mph

40 mph

50 mph

30 mph

3. 

What is the walker's speed with respect to the train?

30 mph

10 mph

40 mph

50 mph

LIVEWORKSHEETS

4. For us humans, what is our basic reference frame?

Earth

The Sun

The Universe

The Milky Way Galaxy

5. What is Relative?

Relative means opposite

Relative means in comparison of something else

6. A dog and a cat are about to fight, running towards each other, both at 12 m/s. What are their velocities relative to each other?

12 m/s

24 m/s

0 m/s

6 m/s

7. Car A has travelled a distance of 70m over 10 seconds. Calculate the speed the of car A.

10 m/s

8 km/s

7m/s

7 mph

8. If a Car A is travelling at 60km/h and Car B is travelling at 80km/h what is the relative speed?

Car B is 10 kmh faster

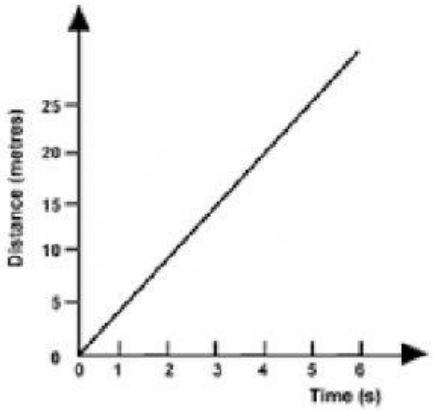
Car A is 10 mph faster

Car B is 20 kmh faster

Car B is 20 mph faster

LIVEWORKSHEETS

9.



What is this graph representing?

Constant Speed

Acceleration (speeding up)

Deceleration (slowing down)

No motion

10. What two measurements are necessary for calculating speed?

Mass and time

Temperature and mass

Mass and distance

Distance and time

11. A measurement of how fast an object is moving

Velocity

Speed

Vector

Acceleration

12. A description of the speed and direction of an object's motion

Velocity

Speed

Acceleration

Vector

13. The speedometer on your car tells you

average velocity

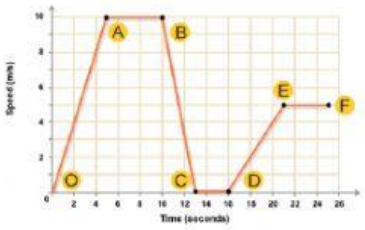
instantaneous velocity

average speed

instantaneous speed

LIVEWORKSHEETS

14.



What is happening in this graph from point A to B?

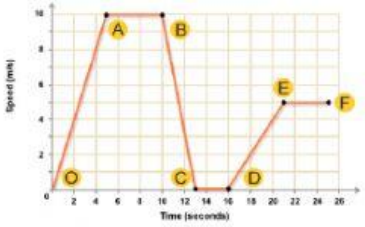
The object is accelerating.

The object is not moving.

The object is decelerating.

The object is moving at a constant speed.

15.



What is happening in this graph from point B to C?

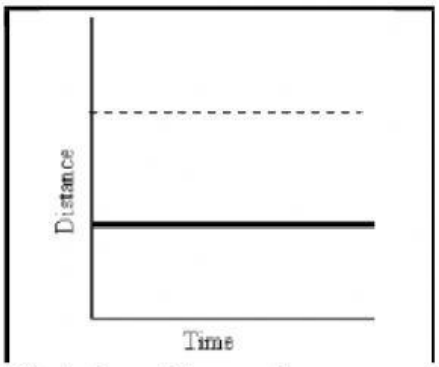
The object is going down a hill.

The object is returning to its starting location.

The object is slowing down.

The object is staying still.

16.



What does this graph represent?

Constant speed

Acceleration

Not moving

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17. What is the speed of an object that travels 60 meters in 4 seconds?

240 m/s

15 m/s

0.067 m/s

15 mph

18. Can be measured in seconds (s)

Distance

Time

Speed

Acceleration

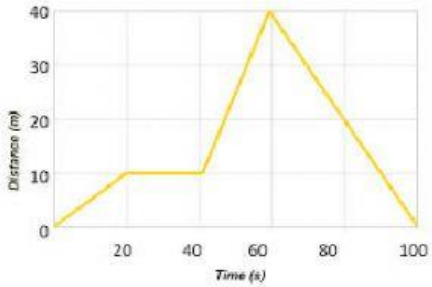
19. What is velocity?

the quickness of an object

the location of an object

acceleration

speed in a specific direction

20. 

At 60 seconds, how far had this object traveled?

0 m

10 m

20 m

40 m

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