

Constant Velocity Test Review

ⓘ This is a preview of the published version of the quiz

Started: Aug 29 at 2:05pm

Quiz Instructions

Round your answers to two decimal places.

Rank numbers based on the number line.

Question 1

1 pts

Constant velocity slow and fast toy cars face each other. The slow car begins at position 6 meters and has velocity -2 m/s. The fast car begins at position 4 meters and has velocity 6 m/s. At what time in seconds do both cars meet?

Do not type units, only the numeric values.

Question 2

1 pts

Constant velocity slow and fast toy cars face each other. The slow car begins at position 6 meters and has velocity -2 m/s. The fast car begins at position 4 meters and has velocity 6 m/s. At what position in meters do both cars meet?

Do not type units, only the numeric values.

Question 3**1 pts**

Constant velocity slow and fast toy cars face the same direction. The slow car begins at position 5 meters and has velocity 3 m/s. The fast car begins at position -7 meters and has velocity 15 m/s. At what time in seconds do both cars meet?

Do not type units, only the numeric values

Question 4**1 pts**

Constant velocity slow and fast toy cars face the same direction. The slow car begins at position 5 meters and has velocity 3 m/s. The fast car begins at position -7 meters and has velocity 15 m/s. At what position in meters do both cars meet?

Do not type units, only the numeric values

Question 5**1 pts**

A velocity of +2 m/s is larger than a velocity of -10 m/s.

Use the number line.

True

False

Question 6**1 pts**

Displacement is final position minus initial position.

True

False

Question 7**1 pts**

A number with a direction.

- vector
- scalar
- speed
- distance

Question 8

1 pts

A number without a direction.

- scalar
- vector
- velocity
- displacement

Question 9

1 pts

The area under the displacement-time graph is the change in velocity.

True False**Question 10****1 pts**

Displacement can leave out information about the motion of an object between its initial and final positions.

 True False**Question 11****1 pts**

Displacement can provide an overall direction whereas distance does not.

 True False**Question 12****1 pts**

Final minus initial or 'change in'.

- delta
- scalar
- distance
- average speed

Question 13

1 pts

This only takes into account final and initial positions. It has an overall direction. Written as delta X. It is a vector.

- displacement
- distance
- scalar
- average speed
- instantaneous speed

Question 14

1 pts

Total length traveled without regard to direction. It is a scalar.

- distance
- displacement
- instantaneous speed
- average velocity

Question 15

1 pts

Total distance divided by total time. It is a scalar.

- average speed
- displacement
- average velocity

Question 16

1 pts

Displacement divided by time. It is a vector.

- average velocity

- instantaneous velocity
- instantaneous speed
- average speed
- distance

Question 17**1 pts**

The velocity of an object at a particular moment in time.

- instantaneous velocity
- instantaneous speed
- average velocity
- average speed

Question 18**1 pts**

The speed of an object at a particular moment in time. When driving in a car, it is indicated by the speedometer needle.

- instantaneous speed
- instantaneous velocity

- distance
- displacement

Question 19**1 pts**

When creating an equation of motion for objects with constant velocity the beginning position is denoted as ____.

- X_i
- X_f
- V with a bar above it.
- y
- m
- t

Question 20**1 pts**

When creating an equation of motion for objects with constant velocity, the average velocity is denoted as ____.

- V with a bar above it.

- Xf
- Xi
- t
- y
- m

Question 21**1 pts**

When creating an equation of motion for objects with constant velocity, the time variable is denoted as ____.

- t
- x
- y
- V with a bar above it.
- Xi
- Xf

Question 22**1 pts**

Motion maps display what type of vectors?

- velocity
- displacement
- acceleration
- force

Question 23

1 pts

Distance can be negative.

- True
- False

Question 24

1 pts

Speed can be negative.

- True

False

Question 25**1 pts**

Displacement can be negative or positive which indicates the direction an object moved relative to its starting position.

True

False

Question 26**1 pts**

The slope of the position-time graph is velocity.

True

False

Question 27**1 pts**

By adding up the negative and positive area between the velocity-time curve and the time axis, you can determine displacement.

- True
- False

Question 28**1 pts**

The slope of the velocity-time graph is displacement.

- True
- False

Question 29**1 pts**

The area under the speed-time graph is distance.

- True
- False

Question 30**1 pts**

The area between the velocity-time graph curve and the time axis can be positive or negative. It is negative if above the time axis and positive if below the time axis.

True

False

Not saved

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