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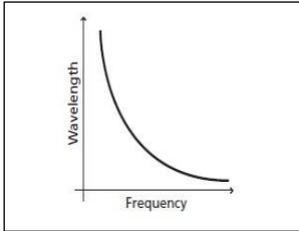
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3-The graph shows the relationship between the frequency and wavelength of light waves.



Which type of relationship do the two variables exhibit?

- A inverse
- B linear
- C parabolic
- D quadratic

4. The speed of an ostrich is measured to be 63 km/h. Using correct significant figures, what is this speed in meters per second?

- A 17 m/s
- B 17.5 m/s
- C 18 m/s
- D 18.5 m/s

-Ming estimated the average velocity of a vehicle to be  $26.82 \pm 0.20$  m/s. Four other students also estimated the average velocity of the vehicle. Their estimates are shown in the table. **Use the table to answer problems 6 and 7.**

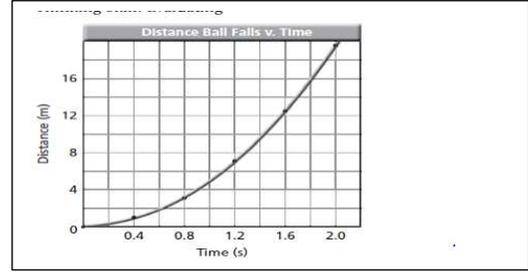
6-Which student's estimate is more precise?

- A student 1
- B student 2
- C student 3
- D student 4

Student	Estimate (m/s)
1	$25.34 \pm 0.25$
2	$26.42 \pm 11.5$
3	$27.15 \pm 11.5$
4	$27.22 \pm 11.5$

7-Which student's estimate is more accurate?

- A student 1
- B-Student 2
- C- student 3
- D- Student 4



8-The graph above shows a nonlinear relationship. Which equation below best represents the graph shown above?

- A  $m = \frac{\Delta y}{\Delta x}$
- B  $y = \frac{x}{a}$
- C  $y = ax^2 + bx + c$
- D  $m = \frac{\Delta y^2}{\Delta x^2}$

9- convert 10 cm to km

- A-0.001Km
- B-0.0001Km
- C-0.01Km
- d-0.00001km

10 )  $6.744+7.48+7.10=$

Select the answer to this calculation, expressed to the correct precision

- A-21.3
- B-21
- C-21.324
- D-21.32

11)  $5.667 \times 8.33$

Select the answer to this calculation, expressed to the correct precision

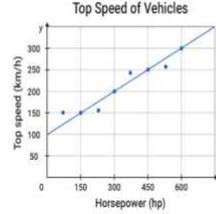
- A- 47
- B) 47.2
- B- 47.22
- D) 47.223

**GR 10 G PHYSICS (مراجعه نهائية ما قبل الامتحان الفصل الأول العاشر العام)**

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12-State the number of significant figures in each of the following measurement

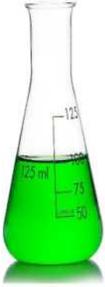
- A-0.056:      B- 6000:      C-  $6 \times 10^8$  m:  
 D-506000:      E-0.550000:      F- $3.14 \pm 0.25$



What is the most appropriate equation for the line of best fit for this graph?

- $y = \frac{x}{2} + 100$         $y = \frac{x}{3} + 100$   
  $y = \frac{x}{3} - 100$         $y = \frac{x}{2} - 100$

13-



Select the measurement with uncertainty of the volume of liquid in this conical flask.

- 100 mL  $\pm$  25 mL       100 mL  $\pm$  12.5 mL  
 125 mL  $\pm$  12.5 mL       125 mL  $\pm$  25 mL

16-FILL THE TABLE

BASE QUANTITY	BASE UNITE
Length(L)	
MASS(m)	
Time(t)	
Temperature(T)	
Amount of a substance	
Electric current	
Luminous intensity	

14-



Select the measurement with uncertainty of volume of liquid in this beaker.

- 200 mL  $\pm$  50 mL       200 L  $\pm$  25 mL  
 200 mL  $\pm$  25 L       200 L  $\pm$  25 mL  
 200 mL  $\pm$  25 mL



17-The measurement shown on the figure above include the uncertainty in your answer

- A-  $12.24 \pm 0.05V$   
 B-  $12.24 \pm 0.04V$   
 C-  $12.24 \pm 0.5V$   
 D-  $12.24 \pm 0.005V$

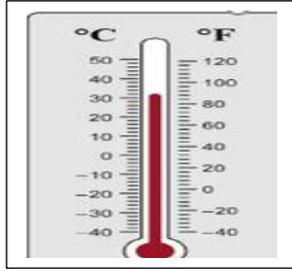
15-

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Referee to the figure above (Ans 18,19)  
18-What is the precision of the instrument?

- A- 2 c
- B- 1c
- C- 0.5 c
- D- 0.25c

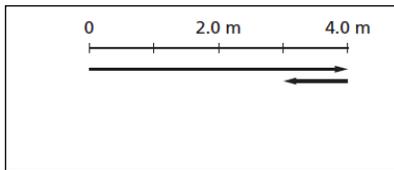


19-The measurement shown on the figure above include the uncertainty in your answer

- A- $30 \pm 2$  C
- B- $30 \pm 1$  C
- C) $30 \pm 0.5$  C
- D) $30 \pm 0.25$  C

**Use the graph to answer problems 1 and 2.**

The lines on the graph represent displacement vectors for the route along which a person moves.



1. What is the total distance traveled?

- A 3.0 m      B 4.0 m
- C 5.0 m      D 6.0 m

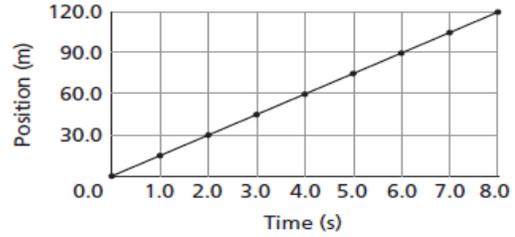
2. What is the person's displacement for the trip?

- A 0.0 m      B- 3.0m      c- 4.0m      D 5.0m

3. Which is a vector quantity?

- A distance
- B position
- C time
- D velocity

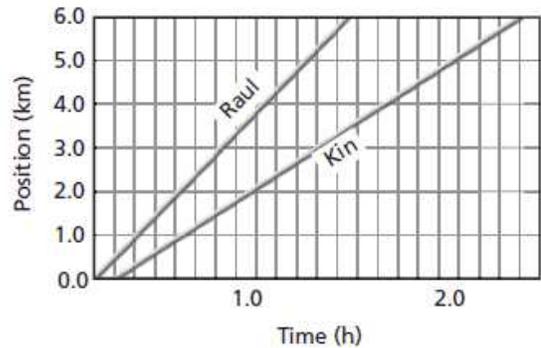
4. The position-time graph represents part of a car trip along a straight road.



What is the average velocity of the car for the first 8.0 s?

- A 20 m/s      B 15m/s
- C 12 m/s      D 8m/s

**Use the following graph to answer problems 5 and 6**



5. The position-time graph represents two walkers. Which walker is the faster one? How do you know?

A Raul, because according to the graph, he started first.

B Kin, because his position-time graph looks longer.

C Raul, because the slope of his position time is steeper, meaning he goes farther in a given time period.

D Kin, because the area under his graph is greater.

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6-Which equation below best represents the average velocity of the walker, Raul.

**A**  $v = \frac{4 \text{ km}}{1 \text{ h}}$

**B**  $v = \frac{1 \text{ h}}{4 \text{ km}}$

**C**  $v = \frac{5 \text{ km}}{2 \text{ h}}$

**D**  $v = \frac{1 \text{ km}}{2 \text{ h}}$

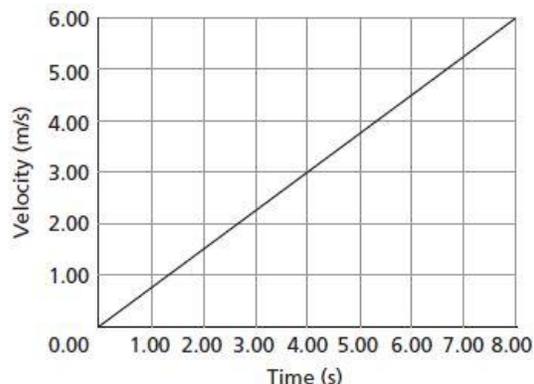
7-A bus leaves the terminal and travels for 120 s at an average velocity of 10.0 m/s before it stops at its first destination. How far from the terminal is the first destination?

- A** 10 m
- B** 12 m
- C** 120 m
- D** 1200 m

8. A bicyclist maintains a constant velocity of 4.0 m/s for a distance of 480 m. How long does it take the bicyclist to travel this distance?

- A** 8 s
- B** 120 s
- C** 476 s
- D** 1920 s

1. The graph shows the velocity of a bicycle as the rider moves away from a curb.



Based on the slope of the graph, what is the average acceleration of the bicycle?

- A** 6.00 m/s<sup>2</sup>
- B** 3.00 m/s<sup>2</sup>
- C** 1.33 m/s<sup>2</sup>
- D** 0.750 m/s<sup>2</sup>

2. A car's velocity decreases from 22.0 m/s to 10.0 m/s over a period of 3.0 s. What is the car's average acceleration?

- A** 4.0 m/s<sup>2</sup>
- B** 3.0 m/s<sup>2</sup>
- C** 3.0 m/s<sup>2</sup>
- D** 4.0 m/s<sup>2</sup>

3. If a sprinter accelerates from rest at a constant rate of 2.0 m/s<sup>2</sup>, how fast will she be running after 4.0 s?

- A** 8.0 m/s
- B** 4.0 m/s
- C** 2.0 m/s
- D** 0.5 m/s

4. A graph shows position as a function of time for an object moving with constant acceleration. What does the slope of the graph represent?

- A** acceleration
- B** displacement
- C** time
- D** velocity

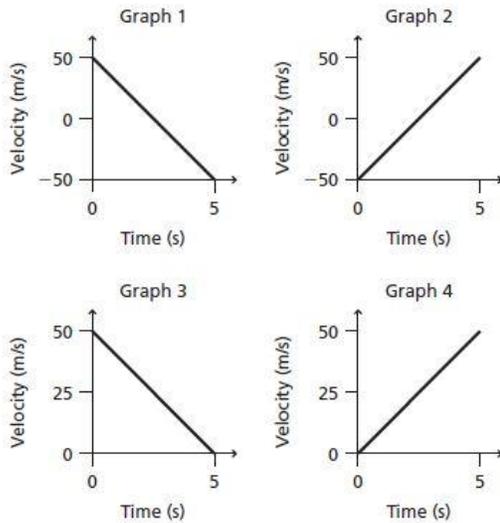
5. A pebble falls from a bridge into the river below. If the pebble falls for 1.20 s, what is its velocity when it hits the water?

- A** 8.17 m/s
- B** 8.40 m/s
- C** 11.0 m/s
- D** 11.8 m/s

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Use the graphs to answer questions 6 and 7.



6. Which graph might represent the acceleration of a jet plane moving down a runway from a rest position?

- A Graph 1
- B Graph 2
- C Graph 3
- D Graph 4

7. Which graph might show the velocity of a ball that is thrown straight up into the air and allowed to fall freely to the ground?

- A Graph 1 B-Graph2
- B Graph 3 D-Graph 4

8. A car with an initial displacement of 10.0 m and an initial velocity of 16.0 m/s accelerates at an average rate of 0.50 m/s<sup>2</sup> for 4.0 s. What is the car's displacement after 4.0 s?

- A 68 m
- B 78 m
- C 82 m
- D 88 m

9. A racing cyclist is traveling at 5.36m/s when she speeds up with a constant acceleration of 0.67 m/s<sup>2</sup>. What is her velocity after 5.00 s?

- A 3.4 m/s<sup>2</sup>
- B 8.611m/s
- C 6.38m/s
- D 140 m/s<sup>2</sup>

\_\_\_\_\_ is the change in velocity divided by the time needed for the change to occur.

- A) Displacement
- B) Average velocity
- C) Average acceleration
- D) Speed

Acceleration describes the rate of change in

- A) position
- B) velocity
- C) mass
- D) gravity

\_\_\_\_\_ means that equal displacements occur during successive equal time intervals.

- A) Average speed
- B) Uniform motion
- C) Average acceleration
- D) Uniform acceleration

If a car travels 100 km in a straight line in the first hour of its trip, 100 km in a straight line in the next hour, and continues in this way, its motion is \_\_\_\_\_.

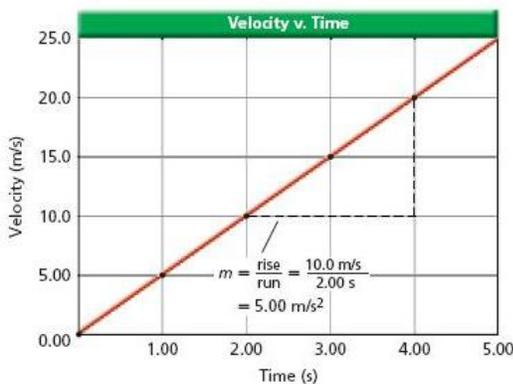
- A) accelerated
- B) dynamic
- C) irregular
- D) uniform

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The slope of the line tangent to the curve on a velocity-time graph at a specific instant of time is the \_\_\_\_\_.

- A) average velocity
- B) instantaneous velocity
- C) instantaneous acceleration
- D) displacement

If the motion in the figure below continued on at that same acceleration, what would the object's speed be at  $t = 10.00$  s?

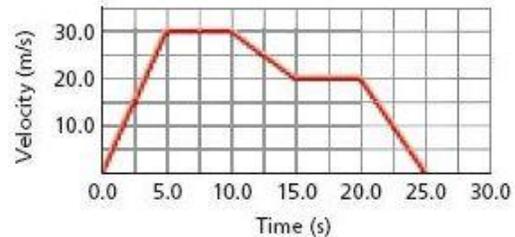


- A) 25.0 m/s
- B) 100.0 m/s
- C) 50.0 m/s
- D) 40.0 m/s

How far does a car travel in 30.0 s while its velocity is changing from 50.0 km/h to 80.0 km/h at a uniform rate of acceleration?

- A)  $1.95 \times 10^3$  m
- B) 252 m
- C)  $5.41 \times 10^2$
- D)  $1.08 \times 10^3$  m

In the figure below, what is the displacement of the object between 0.0 and 5.0 s



- A) 75.0 m
- B) 5.0 m
- C) 150.0 m
- D) 30.0 m

A car with a velocity of 30 m/s accelerates uniformly at the rate of 2.0 m/s<sup>2</sup> for 10 s. What is its final velocity?

- A) 50 m/s<sup>2</sup>
- B) 40 m/s<sup>2</sup>
- C) 40 m/s
- D) 50 m/s

How long will it take an airplane at rest that accelerates uniformly at 2.5 m/s<sup>2</sup> to reach the ground velocity of  $7.0 \times 10^1$  m/s that is required for take off?

- A) 28 s
- B) 35 s
- C) 11 s
- D) 4 s

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A car accelerates uniformly at a rate of  $0.50 \text{ m/s}^2$  for  $1.0 \times 10^1 \text{ s}$ . Its final velocity is  $23 \text{ m/s}$ . What is the initial velocity?

- A)  $18 \text{ m/s}^2$
- B)  $28 \text{ m/s}$
- C)  $28 \text{ m/s}^2$
- D)  $18 \text{ m/s}$

What is the minimum length runway needed to accommodate airplanes that can accelerate uniformly at  $2.7 \text{ m/s}^2$  and must reach a ground velocity of  $64 \text{ m/s}$  before they can take off?

- A)  $7.6 \times 10^2 \text{ m}$
- B)  $1.5 \times 10^2 \text{ m}$
- C)  $7.6 \times 10^3 \text{ m}$
- D)  $1.5 \times 10^3 \text{ m}$

A  $75\text{-kg}$  swimmer steps off a  $10.0\text{-m}$  tower. What is the swimmer's velocity on hitting the water?

- A)  $-14.0 \text{ m/s}$
- B)  $27.1 \text{ m/s}$
- C)  $38.3 \text{ m/s}$
- D)  $0.25 \text{ m/s}$

A ball falls freely from rest for  $15.0 \text{ s}$ . Calculate the ball's velocity after  $15.0 \text{ s}$ .

- A)  $-78 \text{ m/s}$
- B)  $78 \text{ m/s}$
- C)  $0 \text{ m/s}$
- D)  $-147 \text{ m/s}$

A tennis ball is dropped from  $1.5 \text{ m}$  above the ground, . What is the ball's velocity when it hits the ground

- A)  $-5.4 \text{ m/s}$
- B)  $-5.4 \text{ m/s}$
- C)  $-3.8 \text{ m/s}$
- D)  $3.8 \text{ m/s}$

Displacement is a change in \_\_\_\_\_.

- A) speed
- B) position
- C) velocity
- D) distance

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