Physical Science Wkst - Review I for Chapter 2 Motion

<u>D</u>	1. A measure of the path taken backen backen backen backers. A. motion B. velocity	by an object is known as its C. displacement D. distance
B	2. The distance and direction of the A. motion B. velocity	he object's change in position is known as its C. displacement D. distance
3. Yo u	u get out of your desk, walk 20 m, a) What is the distance you trave	take a book from a table, walk back to your seat and sit down.
	b) What is your displacement?	On Returned to orginal location
I CAN Explain the difference between speed and velocity		
4	4. The distance an object travels Speed B. velocity	per unit of time is known as its C. displacement D. distance
B	5. The speed of an object and the A. speed B. velocity	ne direction of its motion is known as its C. displacement D. distance
A	6. The speed you read on a spee	edometer is an example of
(A. instantaneous speed B. constant speed	C. average speed D. velocity
₽= 6:4	dog runs 2 km in 0.4 hr. Calculate sen: 2 km V 0.4 hr	the dog's speed. $V = \frac{1}{4}$ $V = \frac{1}{5}$ V

8. A car is moving with a constant speed of 15.0 m/s along a straight path. What is the distance covered by the car in 720 sec?

501: $U = \frac{15.0 \text{ m/s}}{20.5} = \frac{15.0 \text{$

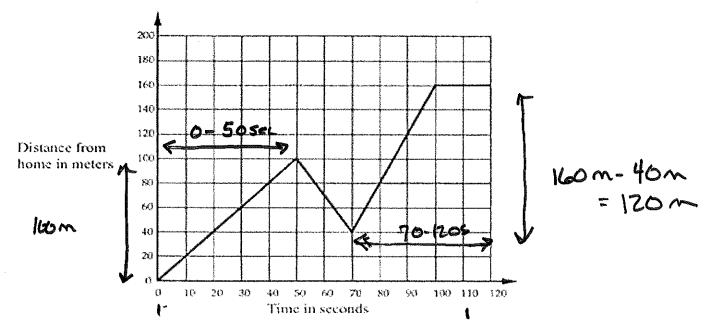
V= 15.0mls t= 720 sec

D=(13.00113 C 123)

- 9. You travel 190 km in 2 h. What is your speed in km/s?
 - X=190m V=? 190Km 7 nc
- V= 95 Km/hr
- **bt = Zhr**10. Explain the difference between speed and velocity.

Speed has magnitude only (value) -Velocity has magnitude a direction Espeed

I CAN Interpret motion graphs



11. Explain the motion between 0-50 sec *use specific speed(s) (show your work)

12. Explain the motion between 70-120 sec *use specific speed(s) (show your work)

13. What is the average speed over 110 seconds?

bb= 160m bt= 1105

I CAN Describe how acceleration, time, and velocity are related

_14. Acceleration is the rate of change of _

A. position

B. time

C. velocity D. force

15. To describe the velocity of an object, you need to know

A. speed and direction,

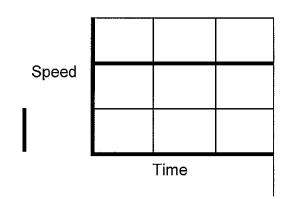
C. direction and acceleration

B. speed and time

D. speed and acceleration

magnitude

I CAN Explain how positive and negative acceleration affect motion





16. A horizontal line on the acceleration graph above shows

acceleration.

A. positive

B. negative

changing

I CAN Calculate the acceleration of an object

17. Find the acceleration of a car that goes from 32 m/s to 96 m/s in 8 s. عد معنون

28=#4

VA= 96 mls

Ui = 32mls 18. An ostrich accelerates at 8 m/s² to a speed of 40 m/s. If the ostrich was already running with a speed of 5 m/s, how long did it take to accelerate to its final speed?

UP = 40mls

V: = Smls