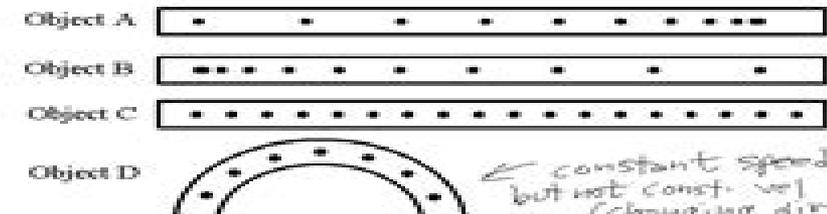Name: _____

Period: _____

Linear Motion In Class Test Review

This is NOT the homework!!!

---

1) Circle the bigger one:

A. Centimeters or (megameters)?
B. Micrometers or (millimeters)?
C. Kilometers or (megameters)?
D. (Centimeters) or millimeters?

2) Convert 18 m/s to meters per min.

$$\frac{18\,m}{1\,sec}\left(\frac{60\ sec}{1\ min}\right) = 1080\ ^m/min.$$

---

3) An object moves 120 m in 15 seconds. Calculate the object's speed.

$$V = \frac{D}{T} = \frac{120}{15} = 8\ ^m/s$$

4) An object moves 18 m/s. How long does it take the object to move 154 m?

$$V = \frac{D}{T} \quad 18 = \frac{154}{T} \quad T = \frac{154}{18}$$
$$18T = 154 \quad = 8.6\,sec$$

5) Speed or (velocity): A person walks 0.5 m/s to the east.

6) (Scalar) or vector: A car is moving 30 m/s. NO direction

Object A

Object B

Object C

Object D

7) The tape timers at the left show 4 objects moving to the right. The dots show the positions of the objects each second. Which objects apply to the following?

C, D Constant speed.
B Positive acceleration.
C At constant velocity.
B, A, D Accelerating.
C Acceleration = 0.

B Distance increases.
B Starts at rest.
A Is stopping.
A, B, C Constant direction.
A Negative acceleration.
C $V_i = V_f$
not D, since changing dir.

← constant speed, but not const. vel (changing dir.)

8) A car begins at a stop sign. It ends up going 100 m in 6.5 seconds. Find the car's acceleration.

Variables: Equation and solve:

$V_i = 0\ ^m/s \quad \Delta x = 100\,m$
$a = ?$
$t = 6.5\,sec$

$$\Delta x = (V_i t) + (\tfrac{1}{2}at^2)$$
$$100 = 0(t) + (\tfrac{1}{2}a(6.5^2))$$
$$100 = \tfrac{1}{2}a\,42.25$$
$$100 = 21.125\,a$$
$$a = 4.7\ ^m/s^2$$

9) +, –, or 0?

A. ___ Acceleration of an object that is moving to the left and speeding up?
B. ___ Acceleration of an object that is moving up and slowing down?
C. + Velocity of an object that is moving to the right?
D. 0 Displacement of an object that ends at its starting position?
E. ___ Acceleration of a thrown object at the top of its path? $V = 0$, but $a = -9.8\ ^m/s^2$
F. ___ Displacement of an object moving to the left?

10) What is the acceleration of a full bottle of water dropped from a desk? $-9.8\ ^m/s^2$ An empty bottle? $-9.8\ ^m/s^2$

11) When an object is dropped or thrown into the air, what is its acceleration? $-9.8\ ^m/s^2$

12) An object dropped from a 4 m tall roof. $\Delta y = -4\,m$ and $v_i = 0\ ^m/s$

13) An object is thrown 10 m/s into the air. How high does it go? $v_i = +10\ ^m/s$; $a = -9.8\ ^m/s^2$; and $v_f = 0\ ^m/s$

14) A person throws a ball into the air at 6 m/s from the ground. When it comes back, $v_f = -6\ ^m/s$, $a = -9.8\ ^m/s^2$, and $\Delta y = 0\,m$

15) *"Sitting on the dock of the bay, wasting time"* with my sister. I get bored and push her off the 2 m dock. How fast is she moving when she belly flops into the water? (And more importantly how badly is she going to hurt me when she catches me?)

Variables: Equation: Solve:

$a = -9.8\ ^m/s^2$
$v_i = 0\ ^m/s$ (dropped)
$v_f = \underline{\quad}$
$\Delta y = -2\,m$

$$v_f^2 = v_i^2 + (2a\Delta y)$$
$$v_f^2 = 0 + (-19.6(-2))$$
$$v_f^2 = 39.2$$

$$v_f = -6.26\ ^m/s$$
neg – falling

16) What is the velocity of the stop sign in the car's frame of reference? $-30\ ^m/s$

17) What is the motorcyclist's velocity relative to the car? $-20-30 = -50\ ^m/s$

30 m/s

STOP

20 m/s

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K Payea

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