

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_ PERIOD: \_\_\_\_\_

## Physics – Chapter 3 – Kinematics – Form 1A ©

To answer each of the following 26 questions, please select the appropriate word from the list at the bottom of the page. On the space provided on the left side of each question, you just need to write the single letter located next to the selected word.

1. \_\_\_\_\_ Traveling north at 100 km/h is an example of a \_\_\_\_\_ quantity
2. \_\_\_\_\_ It is the area measured in a graph V vs. t
3. \_\_\_\_\_ After falling 8 s a body travels \_\_\_\_\_ faster than after falling for 4 s
4. \_\_\_\_\_ Duration of an event
5. \_\_\_\_\_ He was the first one to understand acceleration
6. \_\_\_\_\_ Traveling at 100 km/h is an example of a \_\_\_\_\_ quantity
7. \_\_\_\_\_ If  $g = \text{_____ m/s}^2$ , a body reaches a maximum height of 900 m in 10 s
8. \_\_\_\_\_ In a graph Position vs. Time, intersecting the t axis means passing the \_\_\_\_\_
9. \_\_\_\_\_ The study of motion
10. \_\_\_\_\_ The acceleration is \_\_\_\_\_ during uniformly accelerated motion
11. \_\_\_\_\_ The total displacement is \_\_\_\_\_ m if you walk 30 m north to the office and then 40 m west to the gym
12. \_\_\_\_\_ \_\_\_\_\_ motion is not an example of uniformly accelerated motion
13. \_\_\_\_\_ This must be the initial speed in m/s if a car takes 14 s to stop for an acceleration of  $-5 \text{ m/s}^2$
14. \_\_\_\_\_ \_\_\_\_\_ Velocity = Total Displacement  $\div$  Total Time
15. \_\_\_\_\_ From rest, during the \_\_\_\_\_ second the distance fallen is 5 times greater than during the third second
16. \_\_\_\_\_ Acceleration is defined as the \_\_\_\_\_ at which the velocity changes
17. \_\_\_\_\_ Newton discovered that \_\_\_\_\_ are responsible for changes in motion
18. \_\_\_\_\_ For a projectile shot above the ground, this value can be equal at two different times
19. \_\_\_\_\_ In the SI system of units, the expression  $V_i \cdot t + \frac{1}{2} \cdot a \cdot t^2$  gives this unit
20. \_\_\_\_\_ During free fall on planet Earth a body travels 49 m/s faster after \_\_\_\_\_ s
21. \_\_\_\_\_ A car completing 2 loops in a circular road of radius 200 m has a total displacement of \_\_\_\_\_ m
22. \_\_\_\_\_ A projectile shot at \_\_\_\_\_ deg and at  $50^\circ$  above the ground have the same range
23. \_\_\_\_\_ For falling bodies, the acceleration at  $t = 8 \text{ s}$  is \_\_\_\_\_ to the one at  $t = 4 \text{ s}$
24. \_\_\_\_\_ A car completing 5 and  $\frac{1}{2}$  loops in a circular road of radius 200 m has a total displacement of \_\_\_\_\_ hundred m
25. \_\_\_\_\_ From rest, during the \_\_\_\_\_ second a body falls  $\frac{1}{7}$  the total distance it falls in 7 s
26. \_\_\_\_\_ When gravity is  $8 \text{ m/s}^2$ , a released body falls \_\_\_\_\_ hundred meters in 5 s

### LIST OF WORDS

A- AVERAGE  
D- EIGHTEEN  
G- FIVE  
J- FOUR  
M- HEIGHT  
P- ONE  
S- RATE  
V- THIRTEENTH  
Y- VECTOR

B- CONSTANT  
E- EQUAL  
H- FORCES  
K- FOURTH  
N- KINEMATICS  
Q- ORIGIN  
T- SCALAR  
W- TIME  
Z- ZERO

C- DISPLACEMENT  
F- FIFTY  
I- FORTY  
L- GALILEO  
O- METERS  
R- PROJECTILE  
U- SEVENTY  
X- TWICE

**Physics – Chapter 3 – Kinematics – Form 1A ©**

**A N S W E R     K E Y**

1 - Y	2 - C	3 - X	4 - W
5 - L	6 - T	7 - D	8 - Q
9 - N	10 - B	11 - F	12 - R
13 - U	14 - A	15 - V	16 - S
17 - H	18 - M	19 - O	20 - G
21 - Z	22 - I	23 - E	24 - J
25 - K	26 - P		