Name

 Period

 Date

 Physics Quiz

Section A: Match the vocabulary words to their appropriate definition

\_\_\_\_\_\_ 1) value a) something that can be measured

\_\_\_\_\_\_ 2) unit b) a representation designed to help explain various features of a system

\_\_\_\_\_\_ 3) hypothesis c) how close a measurement is to the accepted value

\_\_\_\_\_\_ 4) model d) based on the number 10; uses prefixes attached to a base unit

\_\_\_\_\_\_ 5) magnitude e) a word telling “how” something was measured

\_\_\_\_\_\_ 6) accuracy f) a mathematical way to convert between two or more units

\_\_\_\_\_\_ 7) precision g) how close repeated measurements are to each other

\_\_\_\_\_\_ 8) SI units h) a number saying how much

\_\_\_\_\_\_ 9) dimensional analysis i) we know call the value of something this

\_\_\_\_\_\_ 10) variable j) an educated guess

 

Section B: Graph matching (use the above graphs to match the correct letter to its description)

\_\_\_\_\_\_11) Which graph shows a car not moving (or without speed)?

\_\_\_\_\_\_ 12) Which graph shows a car increasing at a fast speed?

\_\_\_\_\_\_ 13) Which graph shows a car traveling in the opposite direction?

Section B: Convert each problem using the metric system

14) \_\_\_\_\_\_\_\_\_\_\_\_\_ Convert 9.36 kg to g

15) \_\_\_\_\_\_\_\_\_\_\_\_\_ Convert 13.8 m to cm

16) \_\_\_\_\_\_\_\_\_\_\_\_\_ Convert 0.81 L to mL

Section D: Identify each as a magnitude (value), variable, or unit

17) \_\_\_\_\_\_\_\_\_\_\_\_\_ distance 20) \_\_\_\_\_\_\_\_\_\_\_ 3.0135

18) \_\_\_\_\_\_\_\_\_\_\_\_\_ m/s 21) \_\_\_\_\_\_\_\_\_\_\_ time

19) \_\_\_\_\_\_\_\_\_\_\_\_\_ 1324.9 22) \_\_\_\_\_\_\_\_\_\_\_ kg

Section E: Dimensional Analysis (SHOW YOUR WORK OR NO CREDIT)

23) \_\_\_\_\_\_\_\_\_\_\_\_\_ Convert 13 m to ft. (1 m= 3.28 ft)

24) \_\_\_\_\_\_\_\_\_\_\_\_\_ Grandma wants to know how many liters of lemonade she is going to make if she used 19 cups of water. (Ignore the displacement of sugar.) (1 cup= ~0.237 L)

25) If a kayaker were to travel 31 miles in 110 minutes, what was her average speed? ***Bonus point-*** How many meters did they cover? (1 mile= 1609.34 m)

26) If a person drove 5 hour from here to the Grand Canyon and they travelled 443 km, what was their average speed? ***Bonus point***- How many meters did they travel?

*Option A* *Option B* *Option C*

Section F: Use the above graphs to select which description matches the graph.

\_\_\_\_\_\_ 27) Square Root- y is proportional to the square root of x

\_\_\_\_\_\_ 28) Inverse- y is inversely proportional to x

\_\_\_\_\_\_ 29) Square- y is proportional to the square of x