8th Grade Worksheet 1   **Name**_____

1)   How many significant digits are there in 100.4 ?   _____

2)   How many significant digits are there in 0.00012 ? _____

3)   How many significant digits are there in 456.678 ? _____

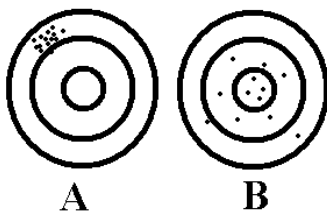4)   How many significant digits are there in 1.0000 ?   _____

                        132.34 x 45.0 x 0.0012 = ?
5)   What is the correct answer in significant digits ?   _____

                        2 x 234.372 = ?
6)   What is the correct answer in significant digits ?   _____

7)   The quality of being near to the true value.
                        Circle one   Precision   Accuracy

8)   The quality of being reproducible in amount or performance..
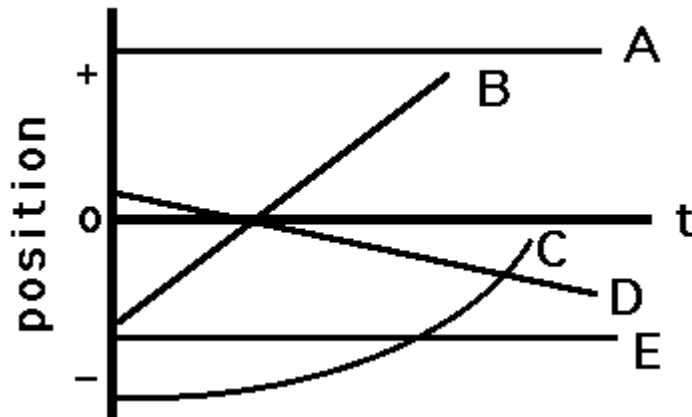   **Circle one**   Precision   Accuracy

9)   Convert 23 ml to liters   _____ l
10)   Convert 345.6 ml to liters   _____ l
11)   Convert 1.011 l to milliliters   _____ ml
12)   Convert 0.035 l to milliliters   _____ ml
13)   Convert 300 cm to meters   _____ m
14)   Convert 0.25 m to centimeters   _____ cm
15)   Convert 35deg Celsius to Fahrenheit   _____ Deg F
16)   Convert 120deg Fahrenheit to Celsius   _____ Deg C

                        A   B

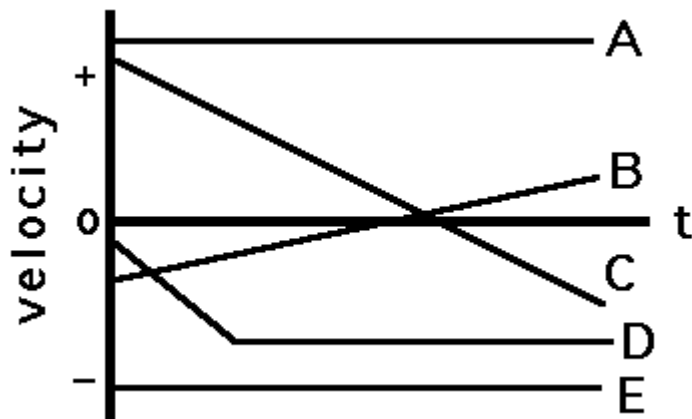17)   Which of the above two targets shows the best precision? A or B _____

18)   What is a Responding Variable? _____

_____

19)   What is a Hypothesis?   _____

_____

Questions 20 – 23 refer to the above plot

20. Which object(s) is(are) maintaining a state of motion   _____
(i.e., maintaining a constant velocity)?

21. Which object(s) is(are) accelerating?   _____

22. Which object(s) is(are) not moving?   _____

23. Which object(s) change(s) its direction?   _____

Questions 24 – 27 refer to the above plot

24. Which object(s) is(are) maintaining its state of **motion**?   _____

25. Which accelerating object has the smallest acceleration?   _____

26. Which object(s) change(s) its direction?   _____

27. Which object(s) is(are) accelerating?   _____