Name _____ Date _____

Section # _____ http://www.stmary.ws/physics/home/

Plotting/Precision Pre-Lab Activity

1.

d (cm)	t (secs)
0	0
5	2
9	3
15	4
20	5
22	6
23	7
24	8

y scale _____

x scale _____

2.

d (cm)	t (secs)
0	0
2	5
6	10
10	20
18	25
22	30
26	35
30	40

y scale _____

x scale _____

3.

d (cm)	t (secs)
0	0
1	.4
9	.8
12	1.2
18	1.6
19	2.0
20	2.4
50	2.8

y scale _____

x scale _____

4.

d (cm)	t (secs)
0	0
1	2
2	4
3	6
3	8
5	10
4	12
3	14

y scale _____

x scale _____

Taking and Reporting Precise Measurements

1. Use your ruler to measure the length of this line _____ **(8 points)**

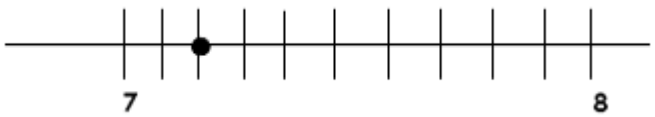
2. All measurements are approximations. The way you report a measurement describes the precision of your measuring device.

Do all these measurements mean the same thing? **(10 points)**

1.0 1.00 1.000

Yes or No? Why?
When you report a number your last digit is looked on as an _____.

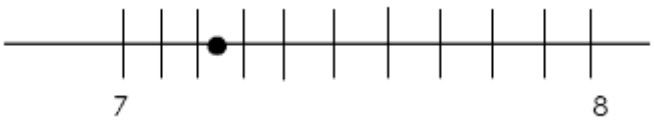
Circle the number below that matches the measurement below



7.21 cm Precise to a **tenth** of a cm **(10 points)**

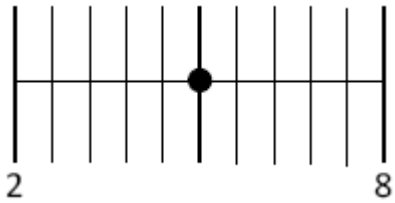
7.211 cm Precise to a _____ of a cm **(10 points)**

7.2 cm Precise to a _____ of a cm **(10 points)**



How would you report this measurement? _____ **(5 points)**

How would you report this measurement? _____ (5 points)



How would you report this measurement? _____ (5 points)

Lab Activity

1. Name one object in our classroom that has a length or width that is very close to 1 meter long _____ **(3 points)**

a) Exactly what is this measurement? _____ m **(2 points)**

2. Estimate the height of Marist in meters _____ m **(3 points)**

(Hand in on a separate piece of loose-leaf)

3. Find something in your book bag that has a length or width that is very close to 1 cm long _____ **(3 points)**

a) Exactly what is this measurement? _____ cm **(3 points)**

4. Use your meter stick and stop watch to find out the approximate walking speed of one of your lab partners.

Speed = distance/time _____ = _____ **(3 points)**