Name _____

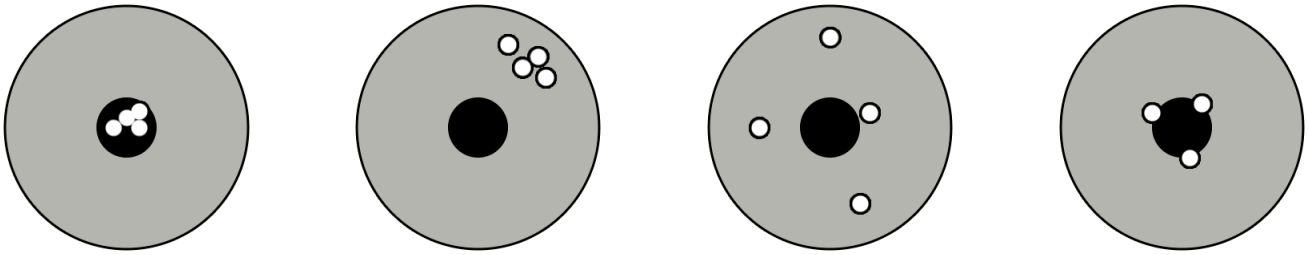
Measurements & Units Review

Measurements

1. What are the two parts of a measurement?

2. Define accuracy, precision, and percent error.

3. Label each of the following pictures as being accurate and/or precise.



Units

Fill in the following table with the types, units, and symbols

Type	American Unit	SI Unit
length		
	pound (lb)	
		second (s)
temperature		
	pounds/in^2 (psi)	
		liter (L)

Metric Prefixes

Fill in the following table.

1 Giga (G)	=		or	
	=		or	10^6 x
	=	1,000 x	or	
1 x	=	1 x	or	1 x
	=	0.01 x	or	
1 milli (m)	=		or	
	=		or	10^{-6} x
	=	0.000 000 001 x	or	
1 pico (p)	=		or	

Convert the following measurements and write the answers in scientific notation.

1. 725 pm to m

2. 0.003 GPa to kPa

3. 75 mL to ML

Calculations

Perform the following conversions with the correct number of significant figures.

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1. How many cm are in 36 in? (1 in = 2.54 cm)

2. How many Pa are in 3.2 atm? (1 atm = 101,325 Pa)

3. How many mL are in 5.00 gal? (1 gal = 3.785 L)

4. How many m are in 100.0 ft? (1 m = 3.28 ft)

5. How many seconds are in a day (1 day is an exact number)?

6. If a spaceship is moving at 750 m/s, then what is its speed in mph? (1 m = 3.28 ft & 1 mi = 5280 ft)

7. Convert 50 km to miles. (1 m = 3.28 ft & 1 mi = 5280 ft)

