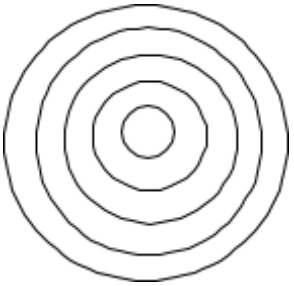
Name: _____ **HW #2**

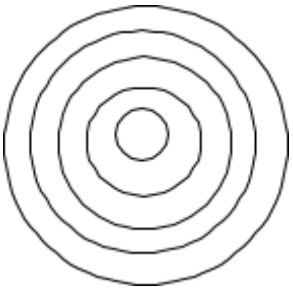
Date_____

Section_____

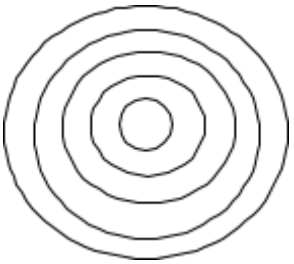
1. **Draw a target diagram that shows high precision but low accuracy**



2. **Draw a target diagram that shows high accuracy but low precision**



3. **Draw a target diagram that shows both high accuracy and precision**



4. **Each of five students used the same ruler to measure the length of the same pencil. These data resulted:15.33 cm, 15.34 cm, 15.33 cm, 15.33 cm, 15.34 cm. The actual length of the pencil was 15.85 cm. Describe the accuracy and precision for these measurements.**

5. **Convert the following measurements**

A. 3 mm = _____cm

B. 6 cL = _____L

C. 25 cg =_____g

D. 5cm = _____dm

E. 9L= _____hL

6.Write each number in scientific notation.

A. 0.07882 =

B. 0.00000272338 =

C. 118000 =

D. 0.00002786 =

7.Write each number in standard format.

A. 3.443×10^{-5} =

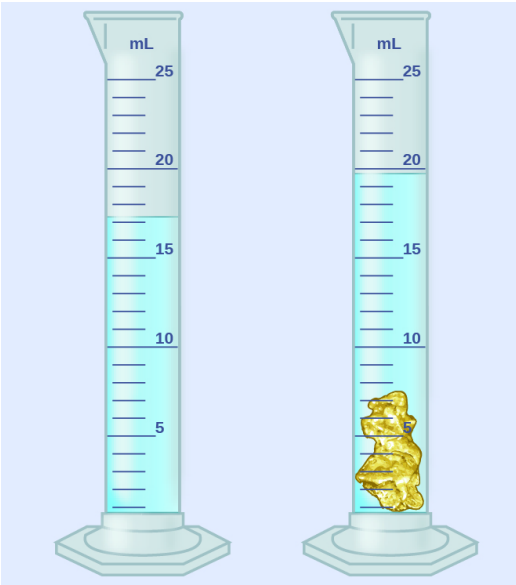
B. 7.75763×10^{2} =

C. 5.8×10^{-3} =

D. 1.525×10^{6} =

8. The density of water at 4 ºC is known to be 1.00 g/mL. Luisa experimentally found the density of water to be 1.065 g/mL. **What is her percent error?** (show your work to receive full credits)

9. What is the volume of the object?_____mL



10) What is the SI Units for the following quantities:

A) Lenght_____ B)Mass_____C)Time_____D)Temperature_____