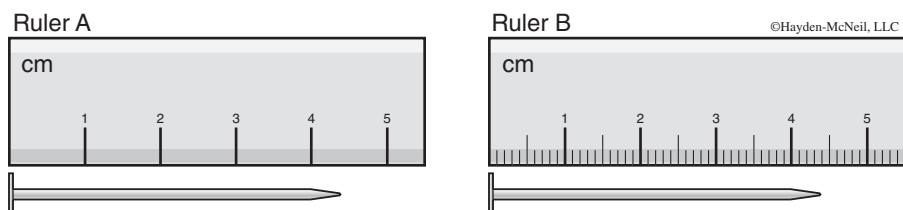


MEASUREMENT

NAME _____

SECTION _____

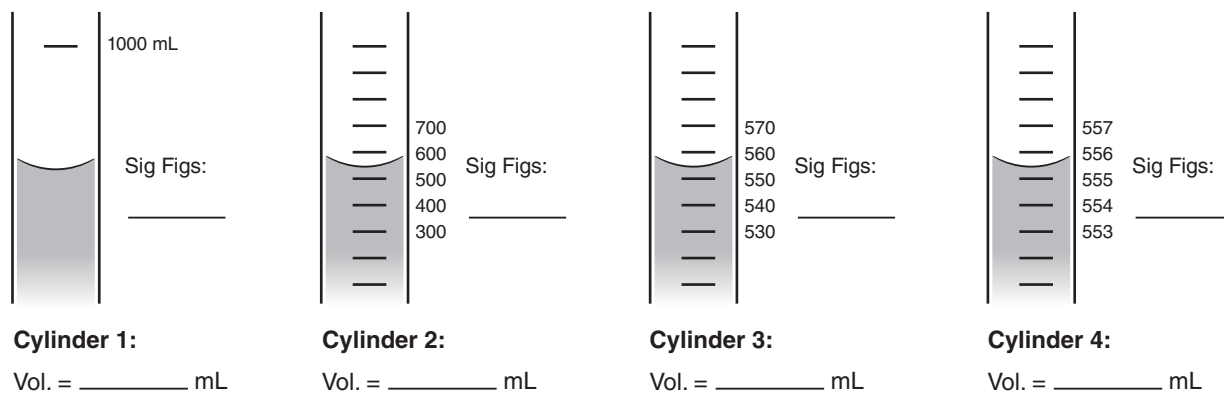
1. What is the length of the nail according to ruler A and ruler B?



Which one is more precise?

How many significant figures are in this measurement?

2. What is the amount of water in each of these cylinders? Which one is more precise?



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How many significant figures are in each of these measurements?

DURING CLASS INVENTIONS · BASIC CONCEPTS

3. a. The diameter of the sun is 1,390,000 km. In scientific notation this is: _____
- b. What is the surface area of the sun in km^2 and in mile^2 ? _____
- c. What is the volume of the sun in km^3 and in mile^3 ? _____
- d. The mass of the sun is 1.989×10^{30} kg. What is the average density of the sun in:
- i. kg/km^3 ?
- ii. g/cm^3 ?
4. Calculate the volume of a backpack in cm^3 , m^3 , and in^3 whose dimensions are $22.86 \text{ cm} \times 38.0 \text{ cm} \times 76 \text{ cm}$.