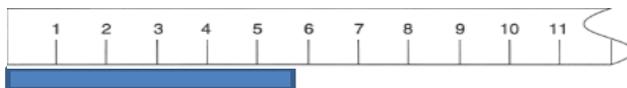


Name: _____ Block: _____ Date: _____ **Warm-Up #8**

1. Determine the length in centimeters of the following:



- Determine the length in centimeters of the following:



2. When _____ or _____, answers will be rounded to the least number of significant figures.
3. When _____ or _____, answers will be rounded to the least number of decimal places.

5. Perform the following calculations and round the answer to correct sig figs.

(a) $\frac{10.521 \text{ g}}{5.89 \text{ mL}} =$

(b) $3.270 \text{ m} \times 0.00320 \text{ m} =$

(c) $5.560 \text{ g} + 2.30000 \text{ g} + 0.00240 \text{ g} =$

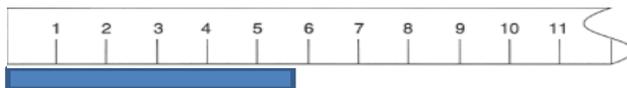
(d) $4.81 \text{ cm} \times 2 \text{ cm} =$

(e) average the following measurements: $3.123 \text{ g} + 0.5600 \text{ g} + 4.34 \text{ g}$

6. A student calculates the density of iron as 7.70 g/cm^3 by using lab data for mass and volume. A handbook reveals that the correct value is 7.86 g/cm^3 . What is the percent error? Use correct number of significant figures.

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8. Which of the following masses is the largest?

(a) 0.200 g

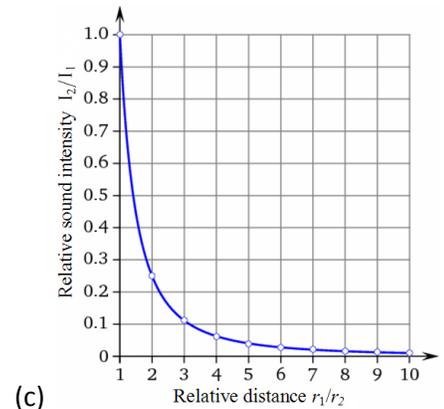
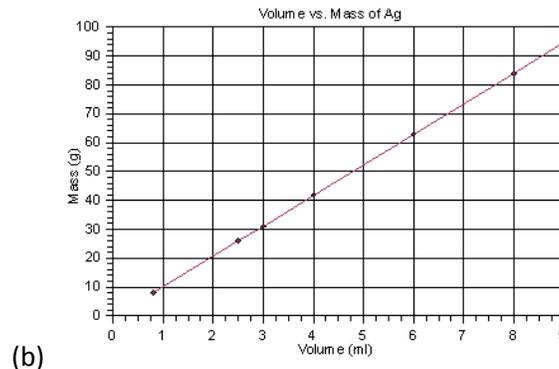
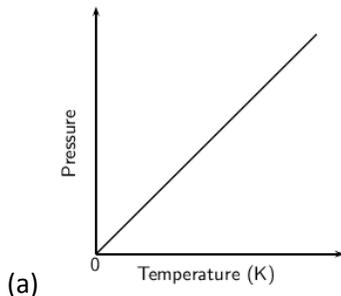
(b) 0.020 kg

(c) 20.0 mg

9. Two students (A and B) each conduct three trials to determine the density of copper metal. The accepted density of copper is listed as 8.94 g/mL. Identify each set of results as either accurate, precise, both or neither. Explain your reasoning.

Student A results	Student B results
7.34g/mL	8.41 g/mL
8.90 g/mL	8.46 g/mL
8.35 g/mL	8.44 g/mL

10. Identify the independent and dependent variables in each graph below. Then identify whether the variables are directly or inversely proportional.



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