

Work each of the following problems. SHOW ALL WORK.

1. Determine the number of significant figures in the following measurements:

- 13,465 m = _____
- 1,065 cm = _____
- 0.0045 g = _____
- 23,000 L = _____
- 0.0302 s = _____
- 160 kg = _____
- 1,030 mL = _____
- 1.500 g = _____
- 7,685 m = _____
- 3,054,000 L = _____

2. Solve the following operations and express the final answer with the correct number of significant figures:

$2.052 \text{ mm} + 1.54 \text{ mm} =$ _____ $11.29 \text{ g} + 1.57 \text{ g} + 2.0 \text{ g} =$ _____

$7,052.1 \text{ L} - 2,048.02 \text{ L} =$ _____ $32.467 \text{ s} - 3.21 \text{ s} =$ _____

Work each of the following problems. SHOW ALL WORK.

3. Solve the following operations and express the final answer with the correct number of significant figures:

$$3.32 \text{ cm} \times 2.1 \text{ cm} = \underline{\hspace{2cm}}$$

$$9.71 \text{ m/s} \times 2.32 \text{ s} = \underline{\hspace{2cm}}$$

$$4.32 \text{ g} \div 1.562 \text{ mL} = \underline{\hspace{2cm}}$$

$$65.32 \text{ m} \div 2.43 \text{ s} = \underline{\hspace{2cm}}$$