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Significant Digits - Rounding Quiz

A. Write the number of significant digits

___ 306 m

___ 0.00306 g

___ 2.7×10^6 kg

___ 28459.02 s

___ 7.60 N

___ 1500 L

___ 0.75 ft

___ 2.20 torr

___ 0.08 s

___ 0.0100 m

___ 3200.0 ft

___ 580 mm Hg

B. Calculate the following observing significant digit rules

5.20 m

0.044 m

+ 0.7 m

704. cm

2.19 cm

+ 3.9 cm

400.391 g

72.4 g

+ 0.0005 g

65.6 s

- 184.050 s

72.66 g

- 9.321 g

375.2 m

- 58.09 m

$$15 \text{ m} \times 432 \text{ m} = \underline{\hspace{2cm}}$$

$$624.7 \text{ m} \div 11.9 \text{ s} = \underline{\hspace{2cm}}$$

$$0.636 \text{ in} \times 0.050 \text{ in} = \underline{\hspace{2cm}}$$

$$\$22.19 \div 3.5 \text{ yd} = \underline{\hspace{2cm}}$$

$$3.5 \text{ mm} \times 8132 \text{ mm} = \underline{\hspace{2cm}}$$

$$100 \text{ miles} \div 2.1 \text{ hours} = \underline{\hspace{2cm}}$$

A box measures 24.3 cm x 4.2 cm x 28.6 cm. Determine the volume.

Three test scores were 97.6 %, 83.4 %, and 95.2 %. Determine the average.