

NAME _____

DATE _____

Convert the following

~~3.56 yds \rightarrow km d. 743 miles \rightarrow dm~~~~2 gal \rightarrow L e. 4.3 pints \rightarrow cL~~~~0.25 oz \rightarrow mg f. 1324 kg \rightarrow lb.~~

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Significant Figures**Practice Problems (Level 1)**

- How many significant figures are there in each of the following measurements?
 - 23 cm
 - 1,498 g
 - 248.3 s
 - 9.855 mL
 - 76.414 kg
 - 32.8 m
 - 107 mm
 - 0.238 km
 - 8.0335 cm
 - 0.05587 m
- Express the answer to each of the following calculations with the correct number of significant figures.
 - $3.42 \text{ cm} + 8.13 \text{ cm}$
 - $4.939 \text{ g} + 3.822 \text{ g}$
 - $17.8 \text{ cm} + 12.11 \text{ cm}$
 - $4.552 \text{ kg} + 3.14 \text{ kg}$
 - $1.966 \text{ s} + 3.4422 \text{ s}$
 - $3.882 \text{ g} - 2.114 \text{ g}$
 - $4.894 \text{ cm} - 2.33 \text{ cm}$
 - $15.6674 \text{ m} - 12.838 \text{ m}$
 - $11.22 \text{ g} - 8.8 \text{ g}$
 - $133 \text{ L} - 6.45 \text{ L}$
- Express the answer to each of the following calculations with the correct number of significant figures.
 - $1.2 \text{ cm} \times 1.3 \text{ cm}$
 - $2.1 \text{ m} \times 1.8 \text{ m}$
 - $1.45 \text{ m} \times 2.2 \text{ m}$
 - $2.5 \text{ mm} \times 1.33 \text{ mm}$
 - $4.3324 \text{ km} \times 1.2 \text{ km}$
 - $32.88 \text{ m}^2 \div 4.388 \text{ m}$
 - $16.5 \text{ km}^2 \div 1.8 \text{ km}$
 - $84.99 \text{ m}^2 \div 2.63 \text{ m}$
 - $9.9 \text{ mm}^2 \div 3.4484 \text{ mm}$
 - $3.085 \text{ cm}^2 \div 2.77448 \text{ cm}$