

Rounding and Significant Figures

1. In the blank to the right of each number, write the number rounded off to the nearest hundredths (0.01) place. Be sure to include units!

- a. 325.2795 g _____ c. 82.29510 oz _____ e. 15.9999 L _____
b. 0.0216 m _____ d. 5.842 mm _____

2. Round these numbers off to the nearest units place (nearest whole number). Remember the units!!

- a. 427.39 cm _____ c. 20.85 mL _____ e. 1.528 m _____
b. 5.0195 lb _____ d. 1005.47 g _____

3. How many significant figures are there in each of these numbers?

- a. 427.39 g d. 0.000202 nuts g. 1.03 E 6 ears j. 1,020 hours
b. 23,900 ft e. 2.00100 cats h. 752,030 mice k. 8.0 sunsets
c. 3.0×10^{-3} lights f. 0.0060400 mL i. 9,000 clocks l. 11.40 trees

4. Calculate the answer and record the entire number in the first blank, then write the number in the second blank, rounded off to the correct number of significant figures. Include units on the final answer!!

- a. $3.02 \text{ g} \div 1.5 \text{ cc}$ = _____ = _____
b. $2.51 \times 10^2 \text{ pears} \times 6.6 \text{ ft}$ = _____ = _____
c. $5 \text{ watermelons} \div 1,257 \text{ ants}$ = _____ = _____
d. $74.38 \text{ hot} \times 100 \text{ dogs}$ = _____ = _____
e. $7.85 \text{ crackers} \times 13,901 \text{ jacks}$ = _____ = _____
f. $45.5 \text{ face lifts} \div 7.5 \text{ wrinkles}$ = _____ = _____
g. $15.341 \text{ in} + 1.002 \times 10^2 \text{ in}$ = _____ = _____
h. $835 \text{ N} - 28.96 \text{ N}$ = _____ = _____
i. $5000. \text{ whoopee} \times 1,496 \text{ bags}$ = _____ = _____
j. $729.23 \text{ clients} \div 5.38 \text{ lawyers}$ = _____ = _____