

Solve each questions showing all of your work.

<p>Convert 0.45 years into hours.</p> $\frac{0.45 \text{ yrs} \mid 365 \text{ days} \mid 24 \text{ hrs}}{1 \text{ yr} \mid 1 \text{ day}} = \boxed{3942 \text{ hrs}}$	<p>Convert 50.6 grams (g) into kilograms (kg).</p> $\frac{50.6 \text{ g} \mid 1 \text{ kg}}{1000 \text{ g}} = \boxed{.0506 \text{ kg}}$ <p>1 kg = 1000 g</p>
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<p>Convert 8.5 pints to liters. Use 1 L = 1.06 Qt.</p> $\frac{8.5 \text{ pints} \mid 1 \text{ qt} \mid 1 \text{ L}}{2 \text{ pints} \mid 1.06 \text{ Qt}} = \boxed{4.009 \text{ L}}$	<p>Apples sell for 43 cents a pound. How much do 3.2 pounds of apples cost in dollars?</p> $\frac{3.2 \text{ lbs} \mid 43 \text{¢} \mid \$1}{1 \text{ lbs} \mid 100 \text{¢}} = \boxed{\$1.38}$
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Zion sends 27 texts per hour. If Zion texts 14 hours a day, how many weeks does it take for Zion to send 25,000 texts?

$$\frac{25,000 \text{ texts} \mid 1 \text{ hr} \mid 1 \text{ day} \mid 1 \text{ week}}{27 \text{ texts} \mid 14 \text{ hr} \mid 7 \text{ days}} = \boxed{9.45 \text{ weeks}}$$

The new hybrid cars get 70 miles per gallon. How many miles can you drive on 8 quarts of gas?

$$\frac{8 \text{ qts} \mid 1 \text{ gallon} \mid 70 \text{ miles}}{4 \text{ qts} \mid 1 \text{ gallon}} = \boxed{140 \text{ miles}}$$

Sarah can study 20 pages per night. Each page has three homework problems. If she studies for 3 nights, how many homework problems will she do?

$$\frac{3 \text{ nights} \mid 20 \text{ pgs} \mid 3 \text{ problems}}{1 \text{ night} \mid 1 \text{ pg.}} = \boxed{180 \text{ problems}}$$