

1 km = 1000 m 1 m = 100 cm
1 mile = 5280 ft
1 inch = 2.54 cm
1 Furlong = 220 yd
1 Fortnight = 2 weeks
8 oz = 1 cup 4 qt = 1 gal
2 cup = 1 pt 16 cup = 1 gal
2 pt = 1 qt

1. Make two levels

$$300 \text{ gal} \quad \underline{300 \text{ gal}}$$

or $\frac{12 \text{ ft}}{\text{sec}}$ already good

2. Put parenthesis next to it

$$\frac{12 \text{ ft}}{\text{sec}} \rightarrow \frac{12 \text{ ft}}{\text{sec}} \left(\text{---} \right)$$

3. Start with top unit,
Put on bottom in parenthesis

$$\frac{12 \text{ ft}}{\text{sec}} \left(\frac{\text{ft}}{\text{ft}} \right)$$

4. add the unit on top that
takes you one step closer
to what your answer needs

$$\frac{12 \text{ ft}}{\text{sec}} \left(\frac{1 \text{ mi}}{5280 \text{ ft}} \right) \text{ then put in numbers for that relationship}$$

5. cancel anything that
equals 1 $\frac{12 \text{ ft}}{\text{sec}} \left(\frac{1 \text{ mile}}{5280 \text{ ft}} \right)$

6. Repeat until done from step 2

$$\frac{4000 \cancel{\text{in}}}{1} \left(\frac{1 \cancel{\text{ft}}}{12 \cancel{\text{in}}} \right) \left(\frac{1 \text{ mi}}{5280 \cancel{\text{ft}}} \right) = \frac{4000 \text{ mi}}{12 \cdot 5280} = \boxed{.063 \text{ mi}}$$

$$\frac{205 \cancel{\text{gal}}}{1} \left(\frac{16 \cancel{\text{cup}}}{1 \cancel{\text{gal}}} \right) \left(\frac{8 \text{ oz}}{1 \cancel{\text{cup}}} \right) = 205 \cdot 16 \cdot 8 \cdot \text{oz} = \boxed{26,240 \text{ oz}}$$

$$\frac{150 \cancel{\text{ft}}}{8} \left(\frac{1 \text{ mi}}{5280 \cancel{\text{ft}}} \right) \left(\frac{60 \cancel{\text{s}}}{1 \cancel{\text{min}}} \right) \left(\frac{60 \cancel{\text{min}}}{1 \text{ hr}} \right) = \frac{150 \cdot \text{mi} \cdot 60 \cdot 60}{5280 \text{ hr}} = \boxed{102.27 \frac{\text{mi}}{\text{hr}}}$$

5400 mi