

An example of converting miles to inches...

$$\begin{aligned}
 2.5 \text{ miles} &= 2.5 \cancel{\text{miles}} \times 5280 \frac{\cancel{\text{feet}}}{\cancel{\text{mile}}} \times 12 \frac{\cancel{\text{inches}}}{\cancel{\text{feet}}} \\
 &= 158,400 \text{ inches}
 \end{aligned}$$

An example of converting inches to miles...

$$\begin{aligned}
 100,000 \text{ inches} &= 100,000 \cancel{\text{in}} \times \frac{1 \cancel{\text{ft}}}{12 \cancel{\text{in}}} \times \frac{1 \text{ mile}}{5280 \cancel{\text{ft}}} \\
 &= 1.58 \text{ miles}
 \end{aligned}$$

An example of kilometers to centimeters...

$$\begin{aligned}
 3 \text{ kilometers} &= 3 \cancel{\text{km}} \times 1000 \frac{\cancel{\text{m}}}{\cancel{\text{km}}} \times 100 \frac{\cancel{\text{cm}}}{\cancel{\text{m}}} \\
 &= 300,000 \text{ centimeters}
 \end{aligned}$$

An example of converting miles to kilometers...

$$\begin{aligned}
 35 \text{ miles} &= 35 \cancel{\text{miles}} \times 1.61 \frac{\cancel{\text{km}}}{\cancel{\text{mile}}} \\
 &= 56.35 \text{ kilometers}
 \end{aligned}$$

An example of converting kilometers to miles...

$$\begin{aligned} 35 \text{ kilometers} &= 35 \cancel{\text{ km}} \times \frac{1 \text{ mile}}{1.61 \cancel{\text{ km}}} \\ &= 21.74 \text{ miles} \end{aligned}$$

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