Conversions

$12\, inches = 1\, foot$ $\qquad$ $3\, feet = 1\, yard$ $\qquad$ $5280\, feet = 1\, mile$ $\qquad$ $1\, inch = 2.54\, cm$

Convert 3,500,000 inches to miles.

$$\left(\frac{3,500,000\,\text{inches}}{1}\right)\left(\frac{\text{feet}}{\text{inches}}\right)\left(\frac{\text{miles}}{\text{feet}}\right)$$

$12\,inches\ =\ 1\,foot$ $3\,feet\ =\ 1\,yard$ $5280\,feet\ =\ 1\,mile$ $1\,inch\ =\ 2.54\,cm$

Convert 15 yards to cm.

$$\left(\frac{15\,\text{yards}}{1}\right)\left(\frac{\text{feet}}{\text{yards}}\right)\left(\frac{\text{inches}}{\text{feet}}\right)\left(\frac{\text{cm}}{\text{inches}}\right)$$

$12\,inches = 1\,foot \qquad 3\,feet = 1\,yard \qquad 5280\,feet = 1\,mile \qquad 1\,inch = 2.54\,cm$

Convert $65\ \dfrac{\text{miles}}{\text{hr}}$ to $\dfrac{\text{feet}}{\text{sec}}$.

$$\left(\frac{65\,\text{miles}}{1\,\text{hour}}\right)\left(\frac{\text{feet}}{\text{miles}}\right)\left(\frac{\text{hour}}{\text{min}}\right)\left(\frac{\text{min}}{\text{sec}}\right)$$

$12\,inches = 1\,foot$ $\qquad$ $3\,feet = 1\,yard$ $\qquad$ $1\,inch = 2.54\,cm$

$12^2\,in^2 = 1^2\,ft^2$ $\qquad$ $3^2\,ft^2 = 1^2\,yd^2$ $\qquad$ $1^2\,in^2 = 2.54^2\,cm^2$

| $in^2 = 1\,ft^2$ | $ft^2 = 1\,yd^2$ | $1\quad in^2 = \qquad cm^2$ | Area |

| $in^3 = 1\,ft^3$ | $ft^3 = 1\,yd^3$ | $1\quad in^3 = \qquad cm^3$ | Volume |

Convert $2\,\text{yd}^2$ to cm^2.

$$\left(\frac{2\,\text{yd}^2}{1}\right)\left(\frac{\text{ft}^2}{\text{yd}^2}\right)\left(\frac{\text{in}^2}{\text{ft}^2}\right)\left(\frac{\text{cm}^2}{\text{in}^2}\right)$$

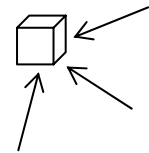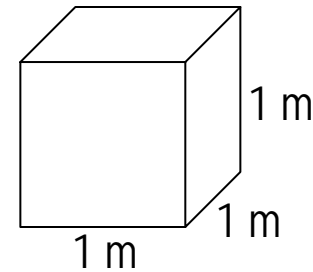$$1728 \; in^3 = 1 \; ft^3 \qquad\qquad 27 \; ft^3 = 1 \; yd^3 \qquad\qquad 1 \; in^3 = 16.387064 \; cm^3$$

Volume

Convert $5 \; m^3$ to ft^3.

Recall: $1 \; m = 100 \; cm \;\Rightarrow\; 1^3 \; m^3 = \qquad cm^3.$

$$\left(\frac{5 \; m^3}{1} \right) \left(\frac{cm^3}{m^3} \right) \left(\frac{in^3}{cm^3} \right) \left(\frac{ft^3}{in^3} \right)$$