

Metric Conversion Sheet (back of chart)

7. Convert $85 \frac{\text{cm}}{\text{min}}$ to $\frac{\text{m}}{\text{s}}$

$$? \frac{\text{m}}{\text{s}} = \overset{2\text{sd}}{85} \frac{\text{cm}}{\text{min}} \left(\frac{1 \text{ m}}{100 \text{ cm}} \right) \left(\frac{1 \text{ min}}{60 \text{ s}} \right)$$

$$85 \div 100 \div 60$$

$$85 \div (100 \cdot 60)$$

$$? \frac{\text{m}}{\text{s}} = 0.014 \overset{2\text{sd}}{\text{m}} \frac{\text{s}}{\text{s}}$$

~~$$85 \div 100 \cdot 60$$~~

8. Convert $3.0 \times 10^8 \frac{\text{m}}{\text{s}}$ to $\frac{\text{km}}{\text{day}}$

$$? \frac{\text{km}}{\text{day}} = 3.0 \times 10^8 \frac{\text{m}}{\text{s}} \left(\frac{1 \text{ km}}{1000 \text{ m}} \right) \left(\frac{60 \text{ s}}{1 \text{ min}} \right) \left(\frac{60 \text{ min}}{1 \text{ h}} \right) \left(\frac{24 \text{ h}}{1 \text{ day}} \right)$$

$$? \frac{\text{km}}{\text{day}} = 2.592 \times 10^{10} \frac{\text{km}}{\text{day}}$$

Factor Label Sheet

7. Convert 5qt to cm³

$$\begin{aligned} ? \text{ cm}^3 &= 5 \cancel{\text{qt}} \left(\frac{1 \cancel{\text{L}}}{1.06 \cancel{\text{qt}}} \right) \left(\frac{1000 \cancel{\text{mL}}}{1 \cancel{\text{L}}} \right) \left(\frac{1 \text{ cm}^3}{1 \text{ mL}} \right) \\ &= 4716.98 \text{ cm}^3 \\ &= 5 \times 10^3 \text{ cm}^3 \text{ (sd)} \end{aligned}$$

9. Convert 2.8 ha to ft²

$$? \text{ ft}^2 = 2.8 \text{ ha} \left(\frac{2.47 \text{ acre}}{1 \text{ ha}} \right) \left(\frac{4840 \text{ yd}^2}{1 \text{ acre}} \right) \left(\frac{9 \text{ ft}^2}{1 \text{ yd}^2} \right)$$

$\left(\frac{3 \text{ ft}}{1 \text{ yd}} \right) \left(\frac{3 \text{ ft}}{1 \text{ yd}} \right)$
 or

$$? \text{ ft}^2 = 301260.96 \text{ ft}^2$$

$$? \text{ ft}^2 = 3.0 \times 10^5 \text{ ft}^2$$

10. Convert 0.1 acres to m²

$$? \text{ m}^2 = 0.1 \text{ acre} \left(\frac{4840 \cancel{\text{yd}}}{1 \cancel{\text{acre}}} \right) \left(\frac{3 \cancel{\text{ft}}}{1 \cancel{\text{yd}}} \right) \left(\frac{12 \cancel{\text{in}}}{1 \cancel{\text{ft}}} \right) \left(\frac{2.54 \cancel{\text{cm}}}{1 \cancel{\text{in}}} \right) \left(\frac{1 \text{ m}}{100 \cancel{\text{cm}}} \right)$$

$\frac{9 \text{ ft}^2}{1 \text{ yd}^2}$ $\frac{144 \text{ in}^2}{1 \text{ ft}^2}$ $\frac{6.5416 \text{ cm}^2}{1 \text{ in}^2}$

$$? \text{ m}^2 = 404.6856422 \text{ m}^2$$

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