Oct 25

1. 1430 cm
2. 5000 m
3. 24,000 cm
4. 9.3 ft
5. 10.17 ft
6. 14.28 yd
7. 11.57 days
   1 Billion
   31.7 years
8. 1.75 qt
9.

9. $1.2 \frac{ft}{min} \longrightarrow \frac{in}{sec}$

$$\frac{1.2\,ft}{min}\left(\frac{12\,in}{1\,ft}\right)\left(\frac{1\,min}{60\,sec}\right) = \frac{1.2 \times 12 \times in}{60\,sec} = \frac{1.44\,in}{60\,sec}$$

$$= \boxed{\frac{.24\,in}{sec}}$$

10. 5ft $\longrightarrow$ m

$$\frac{5\text{ft}}{1}\left(\frac{12\text{ in}}{1\text{ ft}}\right)\left(\frac{2.54\text{cm}}{1\text{ in}}\right)\left(\frac{1\text{ m}}{100\text{ cm}}\right)=\frac{5\times12\times2.54\text{ m}}{100}$$

$$=\boxed{1.52\text{ m}}$$

11. $\frac{2\text{gal}}{\text{min}}\longrightarrow\frac{\text{cups}}{\text{hr}}$

$$\frac{2\text{gal}}{\text{min}}\left(\frac{4\text{ qt}}{1\text{ gal}}\right)\left(\frac{2\text{ pt}}{1\text{ qt}}\right)\left(\frac{2\text{ cups}}{1\text{ pt}}\right)\left(\frac{60\text{ min}}{1\text{ hr}}\right)=$$

$$\boxed{1920\ \frac{\text{cups}}{\text{hr}}}$$

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