

Customary System of Measurement -

The measurement system most often used
in the United States.

EX: inches, feet, miles, ounces, pounds, tons, cups,
quarts, gallons

Length	Weight	Time	Capacity
1 foot = 12 inches	1 pound = 16 ounces	1 minute = 60 seconds	1 cup = 8 fluid ounces
1 yard = 36 inches	1 ton = 2,000 pounds	1 hour = 60 minutes	1 pint = 2 cups
1 yard = 3 feet		1 day = 24 hours	1 quart = 2 pints
1 mile = 5, 280 feet		1 week = 7 days	1 quart = 4 cups
1 mile = 1,760		1 year = 12 months	1 gallon = 4 quarts
		1 year = 365 days	1 gallon = 16 cups
		1 leap year = 366 days	

Customary Measurement

Conversions with Proportions

Ex ① **The Washington Monument is about 185 yards tall.**

Using a proportion, find the height in feet of the Washington Monument.

*cross multiply

$$\begin{array}{r} \text{yd} \\ \hline \text{ft} \\ \times 185 \\ \hline 555 \end{array}$$

~~$$\frac{1}{3} = \frac{185}{x}$$~~

$$x = 555 \text{ ft}$$

Ex 2) In March 1994, a rainbow was visible for 360 minutes over parts of the United Kingdom.

Using a proportion, find out how many hours it was visible.

$$\frac{\text{min}}{\text{hr}} \quad \frac{60}{1} = \frac{360}{X}$$
$$\frac{60X}{60} = \frac{360}{60}$$
$$X = \boxed{6 \text{ hours}}$$

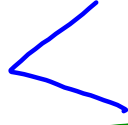
Write a Proportion and Solve.

_____ yards = 87 feet

$$\frac{\text{yd}}{\text{ft}} \quad \frac{1}{3} = \frac{X}{87}$$
$$\frac{3X}{3} = \frac{87}{3}$$
$$X = \boxed{29 \text{ yards}}$$

Using Proportions Compare.
Use $<$, $>$, or $=$

56 oz
3.5 lb



4 pounds
64 oz

$$\frac{\text{oz}}{\text{lb}}$$

$$\frac{16}{1} = \frac{56}{x}$$

$$\frac{16x}{16} = \frac{56}{16}$$

$$x = 3.5$$

$$\frac{\text{oz}}{\text{lb}}$$

$$\frac{16}{1} = \frac{x}{4}$$

$$\frac{16}{x} = \frac{4}{64}$$

$$x = 64$$

oz