

$$\frac{3x}{x} = \underline{\hspace{2cm}}$$

$$\frac{3xy^2}{x} * \frac{2z}{3y} = \underline{\hspace{2cm}}$$

Treat units like \_\_\_\_\_

If the same unit or variable is in the numerator and denominator, you can \_\_\_\_\_.

Don't \_\_\_\_\_ something you are going to have to \_\_\_\_\_ later.

If : 1 foot = 12 inches

Then:  $\frac{1 \text{ foot}}{12 \text{ inc}} = \underline{\hspace{2cm}}$

How many cups are in 2 gallons? (1 gallon is 4 quarts. 1 quart is 4 cups.)

$$2 \text{ gallons} * \frac{4 \text{ quarts}}{1 \text{ gallon}} * \frac{?}{?} = \underline{\hspace{2cm}} \text{ cups}$$

Steve can run 440 yards in 90 seconds. How many miles per hour is that?

$$\frac{440 \text{ yards}}{90 \text{ seconds}} * \frac{?}{?} * \frac{60 \text{ minutes}}{1 \text{ hour}} * \frac{?}{?} = \underline{\hspace{2cm}} \frac{\text{miles}}{\text{hour}}$$

## Practice problems

Lucy can ride her bike at 20 km/hour. How many meters/second is that? Express your answer as a common fraction.

\_\_\_\_\_ m/s

How many flurgs is 5 slurgs?

5 burgs = 7 purgs      2 flurgs = 3 purgs      2 slurgs = 3 burgs

\_\_\_\_\_ flurgs

A cube has a side length of 2 yards.

What is the volume of the cube in cubic yards?

\_\_\_\_\_ yards<sup>3</sup>

What is the volume of the cube in cubic feet?

\_\_\_\_\_ feet<sup>3</sup>

Team problems

Convert 42 miles to malarkey.

\_\_\_\_\_ *malarkey*

Convert 528 kelter to hours =

\_\_\_\_\_ *hours*

Convert 12 mph to ballyhoo/tosh

\_\_\_\_\_ *ballyhoo/tosh*

(distance)	(distance)	(distance)	(distance)	(distance)	(distance)
7 yards	1 miles	8 tootle	55 ballyhoo	60 malarkey	4 fadoodle
7 yards	1 miles	8 tootle	55 ballyhoo	60 malarkey	4 fadoodle
=	=	=	=	=	=
10 fadoodle	1760 yards	1 miles	6 tootle	7 ballyhoo	1 malarkey
10 fadoodle	1760 yards	1 miles	6 tootle	7 ballyhoo	1 malarkey
(distance)	(distance)	(distance)	(distance)	(distance)	(distance)
(distance)	(distance)	(distance)	(distance)	(distance)	(distance)
(time)	(time)	(time)	(time)	(time)	(time)
5 fandangle	3 hours	60 minutes	11 tosh	4 kelter	3 quatsh
5 fandangle	3 hours	60 minutes	11 tosh	4 kelter	3 quatsh
=	=	=	=	=	=
12 quatsh	11 fandangle	1 hours	3 minutes	15 tosh	20 kelter
12 quatsh	11 fandangle	1 hours	3 minutes	15 tosh	20 kelter
(time)	(time)	(time)	(time)	(time)	(time)