

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

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

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?

_____ yards³

What is the volume of the cube in cubic feet?

_____ feet³

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)
7 yards	1 miles	8 tootle	55 ballyhoo	60 malarkey
spvΛ 7	sajiw 1	ajtoot 8	oouYllep 55	kayrlepw 09
alpoopv 7				

=

10 fadoodle	1760 yards	1 miles	6 tootle	7 ballyhoo	1 malarkey
alpoopv 01	spvΛ 0971	sajiw 1	ajtoot 9	oouYllep 7	kayrlepw 1
(distance)	(distance)	(distance)	(distance)	(distance)	(distance)

(time)	(time)	(time)	(time)	(time)	(time)
5 fandangle	3 hours	60 minutes	11 tosh	4 kelter	3 quatsh
gluapuv 5	sruv 3	setnuw 09	usot 11	kelter 4	ustvnb 3
=	=	=	=	=	=

12 quatsh	11 fandangle	1 hours	3 minutes	15 tosh	20 kelter
usvnb 12	gluapuv 11	1 hours	3 minutes	usot 15	kelter 20
(time)	(time)	(time)	(time)	(time)	(time)