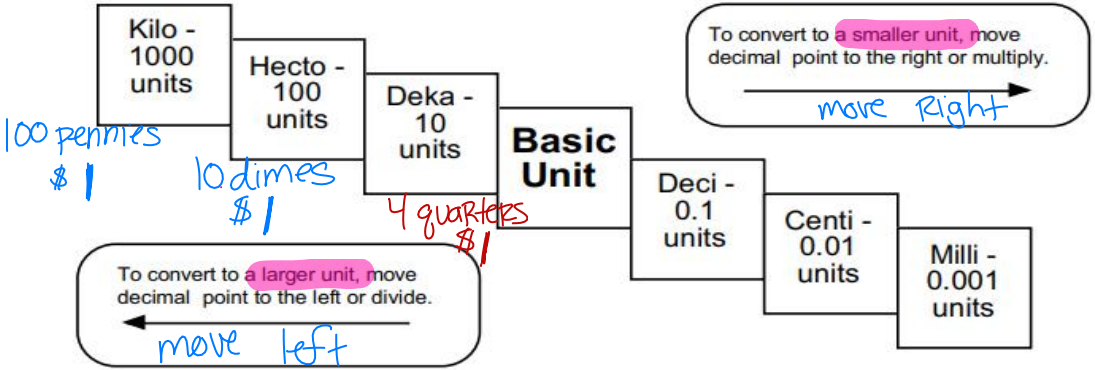


Metric Mania

Conversion Practice



Try these conversions, using the ladder method.

- 1) 2000 mg = 2 g
3 left 2000
- 2) 104 km = 104,000 m
3 right 104
- 3) 480 cm = 4.8 m
2 left 480
- 4) 5.6 kg = 5600 g
3 right 5.6
- 5) 8 mm = 0.8 cm
1 left 8
- 6) 5 L = 5000 mL
3 right
- 7) 198 g = 0.198 kg
3 left
- 8) 75 mL = 0.075 L
left 3 75
- 9) 50 cm = 0.5 m
2 left
- 10) 5.6 m = 560 cm
2 right 5.6
- 11) 16 cm = 160 mm
1 right
- 12) 2500 m = 2.5 km
3 left 2500
- 13) 65 g = 65,000 mg
3 right 65
- 14) 6.3 cm = 63 mm
1 right
- 15) 120 mg = 0.12 g
left 3 120

Mass Units	Liquid Volume Units	Length Units
1 ton = 2000 pounds	1 gallon = 4 quarts	1 mile = 5280 feet
1 pound = 16 ounces	1 quart = 2 Pint	1 yard = 3 feet
	1 Pint = 2 cups	1 foot = 12 inches
	1 cup = 8 ounces	

Unit bigger Answer - smaller

Convert 156 inches to feet (Remember to simplify your final answer)

$$\frac{156 \cancel{\text{inches}}}{1} \times \left(\frac{1 \cancel{\text{foot}}}{12 \cancel{\text{inches}}} \right) = \text{feet } \frac{156 \cdot 1}{1 \cdot 12} = 13 \text{ft}$$

My Answer:

Convert 4 cups to ounces:

$$\frac{4 \cancel{\text{cups}}}{1} \times \left(\frac{8 \cancel{\text{ounces}}}{1 \cancel{\text{cup}}} \right) = \text{ounces } 32 \text{oz}$$

My Answer:

Convert 32 cups to gallons:

$$\frac{32 \cancel{\text{cups}}}{1} \times \left(\frac{1 \cancel{\text{pint}}}{2 \cancel{\text{cups}}} \right) \times \left(\frac{1 \cancel{\text{quart}}}{2 \cancel{\text{pints}}} \right) \times \left(\frac{1 \cancel{\text{gallon}}}{4 \cancel{\text{quarts}}} \right) = 2 \text{ gallons}$$

My Answer:

Convert 3 miles to yards:

$$\frac{3 \cancel{\text{miles}}}{1} \times \left(\frac{5280 \cancel{\text{feet}}}{1 \cancel{\text{mile}}} \right) \times \left(\frac{1 \cancel{\text{yard}}}{3 \cancel{\text{ft}}} \right) = \text{yards } 5280 \text{yd}$$

My Answer:

Let's convert these.

MUST
WRITE
WORDS

Note: 1 kg = 2.2 lbs.

1 in = 2.54 cm

3 ft = 1 yd

16) 17 days into minutes

$$\frac{17 \cancel{\text{days}}}{1} \cdot \frac{24 \cancel{\text{hr}}}{1 \cancel{\text{day}}} \cdot \frac{60 \cancel{\text{min}}}{1 \cancel{\text{hr}}} = 24,480 \text{ mins}$$

17) 10 inches into centimeters

$$\frac{10 \cancel{\text{in}}}{1} \cdot \frac{2.54 \text{cm}}{1 \cancel{\text{in}}} = 25.4 \text{cm}$$

18) 165 pounds into kilograms

$$\frac{165 \cancel{\text{lbs}}}{1} \cdot \frac{1 \cancel{\text{kg}}}{2.2 \cancel{\text{lbs}}} = 75 \text{kg}$$

19) 22,647 inches into miles

20) 45 yards into feet

$$\frac{45 \cancel{\text{yds}}}{1} \cdot \frac{3 \cancel{\text{ft}}}{1 \cancel{\text{yds}}} = 135 \text{ft}$$

21) You find 13,905,613 pennies. How many dollars do you have?

FORRESTER

convert to mins
365 days = 1 yr