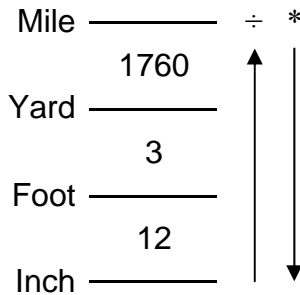# Using the Measurement Ladders
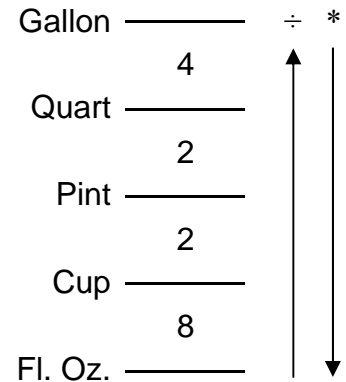
Customary Length
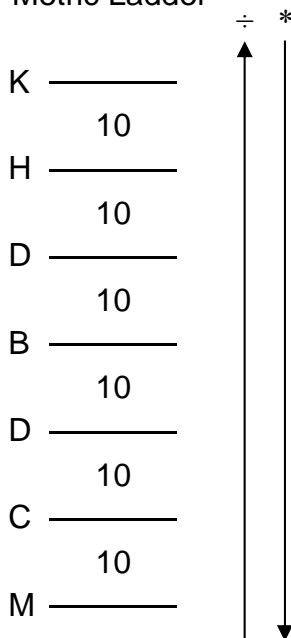
Mile ——— ÷ *
  1760
Yard ———
  3
Foot ———
  12
Inch ———

Customary Weight

Ton ——— ÷ *
  2000
Pound ———
  16
Ounce ———

Customary Capacity

Gallon ——— ÷ *
  4
Quart ———
  2
Pint ———
  2
Cup ———
  8
Fl. Oz. ———

Metric Ladder

÷ *

K ———
  10
H ———
  10
D ———
  10
B ———
  10
D ———
  10
C ———
  10
M ———
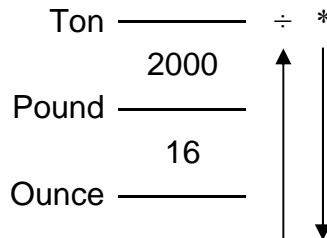
Time

Year ——— ÷ *
  52
Weeks ———
  7
Days ———
  24
Hours ———
  60
Minutes ———
  60
Seconds ———
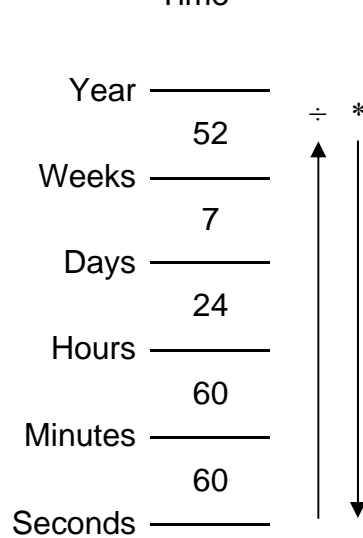
Required Additional Data

365 Days in a year
12 Months in a year

1 in ≈ 2.5 cm
1 qt ≈ 0.95 L
1 oz ≈ 28 g

Extra (student requested)

1 Kilogram ≈ 2.5 pounds
Celsius * 9/5 + 32 ≈ Fahrenheit
Fahrenheit – 32 * 5/9 ≈ Celsius

$$\frac{8 \text{ km}}{5 \text{ mi}}$$

The measurement ladders are very easy to use. Just plug in the numbers and climb or descend the ladder. When you climb the ladder, you need to divide. When you descend the ladder, you need to multiply.

Problems in time:

48 hours is _____ days

Climb up from hours to days so you will divide by 24.

48 ÷ 24 = 2

5 hours is _____ seconds

Climb down from hours to seconds so you will multiply

5 * 60 = 300 minutes * 60 = 18,000 seconds

Using the Measurement Ladders

You try some!

245 days is _____ weeks

Climb ____ from days to weeks so you will _____.

_____ __ _____ = _____ weeks

7200 seconds is ____ hours

Climb ____ from seconds to hours so you will _____.

_____ __ _____ = _____minutes __ _____ =

_____ hours

Problems of length:

5 yards is _____ inches

Climb ____ from yards to inches so you will _____.

_____ __ _____ = _____ feet __ _____ =

_____ inches

156 feet is ____ yards

Climb ____ from feet to yards so you will _____.

_____ __ _____ = _____ yards

Problems of capacity:

3 gallons is _____ cups

Climb ____ from gallons to cups so you will _____.

_____ __ _____ = _____ quarts __ _____ =

_____ pints __ _____ = _____ cups

96 fl. oz. is ____ pints

Climb ____ from fl. oz. to pints so you will _____.

_____ __ _____ = _____ cups __ _____ =

_____ pints

Problems of weight:

6 pounds is _____ ounces

Climb ____ from pounds to oz. so you will _____.

_____ __ _____ = _____ ounces

10,000 pounds is ____ tons

Climb ____ from pounds to tons so you will _____.

_____ __ _____ = _____ tons