

Name _____

Customary Length

You can convert one customary unit of length to another customary unit of length by multiplying or dividing.

Multiply to change from larger to smaller units of length.

Divide to change from smaller to larger units of length.

Convert 3 feet to inches.

Step 1

Decide:

Multiply or Divide

feet → inches
larger → smaller

Step 2

Think:

1 ft = 12 in., so
3 ft = (3 × 12) in.

Customary Units of Length

1 foot (ft) = 12 inches (in.)
1 yard (yd) = 3 feet
1 mile (mi) = 5,280 feet
1 mile = 1,760 yards

Step 3

Multiply.

$3 \times 12 = 36$

So, 3 feet = 36 inches.

Convert 363 feet to yards.

Step 1

Decide:

Multiply or Divide

feet → yards
smaller → larger

Step 2

Think:

3 ft = 1 yd,
so 363 ft = (363 ÷ 3) yd.

Step 3

Divide.

$363 \div \underline{3} = \underline{121}$

So, 363 feet = 121 yards.

Convert.

1. 33 yd = _____ ft 2. 300 mi = _____ yd 3. 46 in. = ____ ft ____ in.

4. 96 yd = _____ ft 5. 48 ft = _____ yd 6. 2 mi 20 yd = _____ yd

Compare. Write <, >, or =.

7. 2 yd ○ 7 ft 8. 67 mi ○ 117,920 yd 9. 250 yd ○ 800 ft

10. 14 yd 2 ft ○ 16 ft 11. 34 ft 10 in. ○ 518 in. 12. 5 mi 8 ft ○ 8,800 yd

Name _____

Customary Capacity

You can convert one unit of customary capacity to another by multiplying or dividing.

Multiply to change from larger to smaller units.

Divide to change from smaller to larger units.

Convert 8 cups to quarts.

Step 1

Decide:

Multiply or Divide

cups → quarts
smaller → larger

Step 2

Think:

4 c = 1 qt,
so 8 c = (8 ÷ 4) qt.

Step 3

Divide.

$$8 \div \underline{4} = \underline{2}$$

So, 8 cups = 2 quarts.

Convert 19 gallons to quarts.

Step 1

Decide:

Multiply or Divide

gallons → quarts
larger → smaller

Step 2

Think:

1 gal = 4 qt,
so 19 gal = (19 × 4) qt.

Step 3

Multiply.

$$19 \times \underline{4} = \underline{76}$$

So, 19 gallons = 76 quarts.

Convert.

1. 14 pt = _____ qt 2. 32 qt = _____ c 3. 7 c = _____ fl oz

4. 28 c = _____ pt 5. 9 gal = _____ qt 6. 16 c = _____ qt

Compare. Write <, >, or =.

7. 16 qt ○ 60 c

8. 88 fl oz ○ 11 c

9. 3 gal ○ 10 qt

10. 36 qt ○ 54 c

11. 66 fl oz ○ 9 c

12. 16 gal ○ 64 qt

Name _____

Weight

You can convert one customary unit of weight to another by multiplying or dividing.

Multiply to change from larger to smaller units.

Divide to change from smaller to larger units.

Customary Units of Weight

1 pound (lb) = 16 ounces (oz)
1 ton (T) = 2,000 pounds

Convert 96 ounces to pounds.

Step 1

Decide:

Multiply or Divide

ounces → pounds
smaller → larger

Step 2

Think:

16 oz = 1 lb
so 96 oz = (96 ÷ 16) lb.

Step 3

Divide.

$$96 \div \underline{16} = \underline{6}$$

So, 96 ounces = 6 pounds.

Convert 4 pounds to ounces.

Step 1

Decide:

Multiply or Divide

pounds → ounces
larger → smaller

Step 2

Think:

1 lb = 16 oz,
so 4 lb = (4 × 16) oz.

Step 3

Multiply.

$$4 \times \underline{16} = \underline{64}$$

So, 4 pounds = 64 ounces.

Convert.

1. 14 lb = _____ oz

2. 12,000 lb = _____ T

3. 2 T = _____ lb

4. 7 lb = _____ oz

5. 22 lb = _____ oz

6. 16 oz = _____ lb

Compare. Write <, >, or =.

7. 1 T 3,000 lb

8. 3 lb 43 oz

9. 5 T 10,000 lb

10. 3 T 6,000 lb

11. 6 lb 96 oz

12. 16 T 6,400 lb

Name _____

Multistep Measurement Problems

An ice cream parlor donated 6 containers of ice cream to a local elementary school. Each container holds 3 gallons of ice cream. If each student is served 1 cup of ice cream, how many students can be served?

Step 1 Record the information you are given.

There are 6 containers of ice cream.

Each container holds 3 gallons of ice cream.

Step 2 Find the total amount of ice cream in the 6 containers.

6×3 gallons = 18 gallons of ice cream

Step 3 Convert from gallons to cups.

There are 4 quarts in 1 gallon, so 18 gallons = 72 quarts.

There are 2 pints in 1 quart, so 72 quarts = 144 pints.

There are 2 cups in 1 pint, so 144 pints = 288 cups.

So, 288 students can be served 1 cup of ice cream.

Solve.

1. A cargo truck weighs 8,750 pounds. The weight limit for a certain bridge is 5 tons. How many pounds of cargo can be added to the truck before it exceeds the weight limit for the bridge?

2. A plumber uses 16 inches of tubing to connect each washing machine in a laundry to the water source. He wants to install 18 washing machines. How many yards of tubing will he need?

3. Larry has 9 gallons of paint. He uses 10 quarts to paint his kitchen and 3 gallons to paint his living room. How many pints of paint will be left?

4. Ketisha is practicing for a marathon by running around a track that is 440 yards long. Yesterday she ran around the track 20 times. How many miles did she run?
