

Name: _____

Unit Conversion Worksheet

Conversions

1 hour = 3600 seconds

1 mile = 5280 feet

1 yard = 3 feet

1 meter = 3.28 feet

1 km = 0.62 miles

1 light second = 300,000,000 meters

1 kg = 2.2 lbs

1 lb = 0.45 kg

1 quart = 0.946 liters

1 m/s = 2.2 miles/hour

1 foot = 12 inches

1 inch = 2.54 cm = 25.4 mm

Convert the following quantities.

565,900 seconds into hours

17 hours into minutes

43 miles into feet

165 pounds into kilograms

100 yards into meters

22,647 inches into miles

2678 cm into feet

1. Convert the following.

A. 140,000 miles to kilometers

B. 30.0 days to seconds

C. 15 pints to milliliters

D. 50.5 kilometers to feet

E. 23 quarts to liters

Equivalence Statements

$$1 \text{ gal} = 4 \text{ qt}$$

$$1 \text{ L} = 1.06 \text{ qt}$$

$$1 \text{ mi} = 1760 \text{ yds}$$

$$1 \text{ qt} = 2 \text{ pints}$$

$$1 \text{ yd} = 3 \text{ ft.}$$

$$1 \text{ m} = 1.094 \text{ yds}$$

$$1 \text{ m} = 3.28 \text{ ft}$$

$$1 \text{ m/s} = 2.2 \text{ mi/hr}$$

$$1 \text{ km} = 0.62 \text{ mi}$$

$$1 \text{ in} = 2.54 \text{ cm}$$

$$1 \text{ lb} = 454 \text{ g}$$

$$1 \text{ pint} = 2 \text{ cups}$$

$$1 \text{ ton} = 2000 \text{ lbs}$$

$$1 \text{ mile} = 1.61 \text{ km}$$

$$1 \text{ L} = 1000 \text{ cm}^3$$

$$1 \text{ kg} = 2.2 \text{ lbs}$$

$$1 \text{ mi} = 5280 \text{ ft}$$

$$1 \text{ qt} = 0.946 \text{ L}$$

2. In *The Lord of the Rings*, Frodo and Sam use a rope to rappel down a cliff. The rope was 30 ells long. How high was the cliff in meters if the rope reached the bottom? (1 ell = 45 in)

3. Calculate the number of laboratory reports must I grade if each student does 25 experiments. I have 5 classes of 32 students each. (start with 5 classes)

4. The distance between Los Angeles and Denver is 1182 mi. How many kilometers is this?