Measurements and Ratios Homework Name _____

Use the Reference Sheet to convert the following measurements.

1. How many gallons is 2 liters?	2. A bottle of lemonade contains 59 fluid ounces. How many quarts is that?

3. Johnny ran the 100 yard dash in gym class. How many meters is that? **(Hint: Convert the yards to inches first!)**

Got It?

You have 2 gallons of a bubble solution. About how many liters of bubble solution do you have? Use 1 quart ≈ 0.95 liter.

A. 1.9 liters

B. 3.8 liters

C. 7.6 liters

D. 15.2 liters

Measurements and Ratios Homework Name Key

Use the Reference Sheet to convert the following measurements.

1. How many gallons is 2 liters?

$\frac{1 \text{ gallon}}{3.785 \text{ liters}} = \frac{x}{2 \text{ liters}}$

$3.785 \cdot x = 2$

$\div 3.785 \quad \div 3.785$

$x = 0.528$ gallons

2. A bottle of lemonade contains 59 fluid ounces. How many quarts is that?

1 quart = 2 pints = 4 cups = 32 floz.

$\frac{1 \text{ qt}}{32 \text{ floz}} = \frac{x}{59 \text{ floz}}$

$32x = 59$

$\div 32 \quad \div 32$

$x = 1.84$ quarts

3. Johnny ran the 100 yard dash in gym class. How many meters is that? **(Hint: Convert the yards to inches first!)**

1 yd = 36 in (×100)

100 yds = 3600 in (×100)

$\frac{1 \text{ meter}}{39.37 \text{ in}} = \frac{x}{3600 \text{ in}}$

$39.37x = 3600$

$\div 39.37 \quad \div 39.37$

$x = 91.4$ meters

Got It?

You have 2 gallons of a bubble solution. About how many liters of bubble solution do you have? Use 1 quart ≈ 0.95 liter.

1 gallon = 4 quarts (×2)

2 gallons = 8 quarts (×2)

A. 1.9 liters

B. 3.8 liters

C. 7.6 liters

D. 15.2 liters

$\frac{1 \text{ quart}}{0.95 \text{ liter}} = \frac{8 \text{ quarts}}{7.6 \text{ liters}}$ (×8)