

Volume Word Problems

Name: _____ Class: _____

Take: 1 gallon = 3.79 liters, 1 quart = 0.95 liters, 1 pint = 0.47 liters

Show your workings and round answers off to the nearest hundredth.

1. A dog drinks 4 quarts of water per day. How many liters of water does the dog drink in a week?



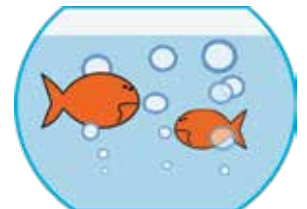
2. The total capacity of 3 identical jerry cans is 8.4 gallons. What is the capacity of 1 jerry can in milliliters?

3. The volume of 1 carton of orange juice is 0.2 quarts. What is the volume of 13 cartons in liters?



4. A fish tank has a capacity of 50 gallons. If there's already 60 liters of water in it, how many liters of water is needed to fill it up completely?

5. How many milliliters of water do you need to fill up a 12 pint fish bowl?



6. What can hold more water: a 100 gallon bathtub or a 380,000 milliliters aquarium?

Answers

Take: 1 gallon = 3.79 liters, 1 quart = 0.95 liters, 1 pint = 0.47 liters
Show your workings and round answers off to the nearest hundredth.

1. A dog drinks 4 quarts of water per day. How many liters of water does the dog drink in a week?

$$4 \times 0.95 \times 7 = 26.6 \text{ liters}$$

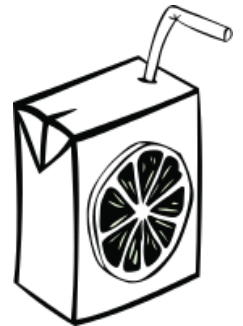


2. The total capacity of 3 identical jerry cans is 8.4 gallons. What is the capacity of 1 jerry can in milliliters?

$$(8.4 \div 3) \times 3.79 \times 1,000 = 10,612 \text{ milliliters}$$

3. The volume of 1 carton of orange juice is 0.2 quarts. What is the volume of 13 cartons in liters?

$$13 \times 0.2 \times 0.95 = 2.47 \text{ liters}$$

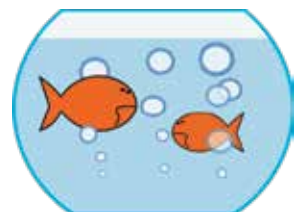


4. A fish tank has a capacity of 50 gallons. If there's already 60 liters of water in it, how many liters of water is needed to fill it up completely?

$$(50 \times 3.79) - 60 = 129.5 \text{ liters}$$

5. How many milliliters of water do you need to fill up a 12 pint fish bowl?

$$12 \times 0.47 \times 1,000 = 5,640 \text{ milliliters}$$



6. What can hold more water: a 100 gallon bathtub or a 380,000 milliliters aquarium?

$$100 \times 3.79 \times 1,000 < 380,000, \text{ thus the aquarium}$$