

Volume Word Problems

Name: _____ Class: _____

Solve the following word problems. Show number sentence and your workings.

1. The volume of 1 can of Pepsi is 0.4 liter. What is the volume of 10 cans?



2. A bottle has a volume of 1,500 milliliters of water. If you pour 0.3 liters of water out of it, how much water will be left in it?

3. The total capacity of 9 similar bottles of water is 3,600 milliliters. What is the capacity of 1 bottle in liters?



4. A fish tank with a capacity of 100 liters is filled with 20,000 ml of water. How much more water is needed to fill it up completely?

5. A bottle of water has a volume of 0.75 liters. What is the volume of 5 bottles in milliliters?



6. You have 200 liters of water. How many 40 milliliter cups can you fill with this?

Answers

Solve the following word problems. Show number sentence and your workings.

1. The volume of 1 can of Pepsi is 0.4 liter. What is the volume of 10 cans?

$$10 \times 0.4 = 4 \text{ liters}$$



2. A bottle has a volume of 1,500 milliliters of water. If you pour 0.3 liters of water out of it, how much water will be left in it?

$$1,5 - 0.3 = 1.2 \text{ liters or } 1,200 \text{ ml}$$

3. The total capacity of 9 similar bottles of water is 3,600 milliliters. What is the capacity of 1 bottle in liters?

$$3,600 \div 9 = 400 \text{ ml} = 0.4 \text{ liters}$$



4. A fish tank with a capacity of 100 liters is filled with 20,000 ml of water. How much more water is needed to fill it up completely?

$$100 - (20,000 \div 1,000) = 80 \text{ liters}$$

5. A bottle of water has a volume of 0.75 liters. What is the volume of 5 bottles in milliliters?

$$5 \times 0.75 = 3.75 \text{ liters} = 3,750 \text{ milliliters}$$



6. You have 200 liters of water. How many 40 milliliter cups can you fill with this?

$$(200 \times 1,000) \div 40 = 5,000 \text{ cups}$$