

Volume Word Problems

Name: _____ Class: _____

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

1. The volume of 1 carton of orange juice is 1.25 pint.
What is the volume in gallons of 64 cartons?



2. A container has a capacity of 250 gallons. With already 400 pints of water in it, how much water is needed to fill it up completely?

3. The total capacity of 4 similar jugs is 3.6 gallons.
What is the capacity of 1 jug in quarts?



4. I sweat 0.5 pints of sweat everyday. How much do I sweat in 4 weeks?

5. How many pints of water do you need to fill up a 96.25 gallon bathtub?



6. What is less: 1,600 quarts of water or 3,000 pints of water?

Answers

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

1. The volume of 1 carton of orange juice is 1.25 pint.
What is the volume in gallons of 64 cartons?

$$(64 \times 1.25) \div 8 = 10 \text{ gallons}$$



2. A container has a capacity of 250 gallons. With already 400 pints of water in it, how much water is needed to fill it up completely?

$$(250 \times 8) - 400 = 1,600 \text{ pints} = 200 \text{ gallons}$$



3. The total capacity of 4 similar jugs is 3.6 gallons.
What is the capacity of 1 jug in quarts?

$$(3.6 \div 4) \times 4 = 3.6 \text{ quarts}$$

4. I sweat 0.5 pints of sweat everyday. How much do I sweat in 4 weeks?

$$0.5 \times 28 = 14 \text{ pints} = 1 \text{ gallon and } 6 \text{ pints}$$

5. How many pints of water do you need to fill up a 96.25 gallon bathtub?

$$96.25 \times 8 = 770 \text{ pints}$$



6. What is less: 1,600 quarts of water or 3,000 pints of water?

$$3,000 \text{ pint is less } (1,600 \times 2 > 3,000)$$