# Volume and capacity word problems (metric units)

Grade 4 Word Problems Worksheet

1.  John poured 5 L 600 ml of pure pineapple juice and 1L 100 ml of syrup into a container with 2 L 200 ml of water to make pineapple juice. How much pineapple juice was left if John sold 5 L 600 ml of it?

2.  The doctor prescribed cough syrup for Ryan to take, 4 doses a day for a week. Each dose is 5 ml of syrup. How much syrup would he take in a day? in a week?

3.  The cows on the farm produced 128 L of milk. The farmer sold 63 L to his 4 neighbors and the remaining will be distributed in containers. If each container has a capacity of 5 L, how many containers of milk will the farmer have?

4. The full petrol tank capacity of a cargo car is 60.5 L. The owner put 43.8 L of petrol into the tank because it was not empty. How many liters of petrol were in the tank of the car before refueling? Express your answer in liters and milliliters.

5. One container holds 4 L of white paint. One bottle holds 450 ml of thinner. Mr. Bobbins used 2580 ml of the white paint for the renovation of his house. How much white paint is left in the container? Express your answer in liters and milliliters.

6. An orange juice box contains 350 ml of juice, and a bottle of orange juice contains 1.2 L. A can of orange juice contains 350 ml more than the bottle of orange juice. How much more juice is there in 4 boxes of juice compared to one bottle of juice?

## Answers

1. 5 L 600 ml + 1 L 100 ml + 2 L 200 ml = 8 L 900ml
   8 L 900ml – 5 L 600ml = 3 L 300ml
   There were 3 L 300ml of pineapple juice left.

2. 4 x 5 ml = 20 ml
   He would take 20 ml of his syrup daily.
   20 ml x 7 = 140 ml
   He would take 140 ml of his medicine in a week.

3. 128 L – 63 L = 65 L
   65 ÷ 5 = 13
   The farmer will have 13 containers of milk.

4. 60.5 L – 43.8 L = 16.7 L = 16 L 700 ml
   There were 16 L 700 ml of petrol in the tank before refilling.

5. 4 L = 4,000 ml
   4,000 – 2,580 = 1,420 ml = 1 L 420 ml
   There is 1 L 420 ml of white paint left in the container.

6. 350 x 4 = 1,400
   1,400 – 1,200 = 200 ml
   The 4 boxes of juice have 200 ml more than a bottle of juice.