

Capacity word problems (metric units)

Grade 5 Word Problems Worksheet

1. Ernest bought 5 containers of white paint and 2 containers of light blue paint to repaint his house after 5 years. Each container he bought holds 4.3 L of paint. How many milliliters of paint did he buy in all?

2. A spray container holds 350 ml of alcohol. Each spray from the container releases 6 ml of alcohol. If Rica sprays the alcohol spray container 12 times, how much alcohol was released? How much alcohol would be left in the spray container?

3. Anna forgot that she was boiling 3,200 ml of water for spaghetti pasta in a pot. She checked and only 2 L 800 ml of water was left. How much water was lost from the pot as it boiled?



4. Denver needs to fill a water drum with the capacity of 220 L. He fetched water from the well 11 times using his 2 pails of different sizes. The bigger pail holds 10 L and 200ml and the smaller pail holds 9 L 500 ml. In liters, how much more water does he need to fetch to reach the full capacity of the water drum?

5. The fuel tank capacity of Mark's taxicab is 22.8 L. Earlier, he saw that the fuel tank was almost empty, so he went to a gasoline station and refilled his car with 20,900 ml of gasoline which made it full. In liters, how much gasoline was there in his car before refueling? If 1 liter of gasoline costs \$1.10, how much did he pay to refill his tank?

6. A public hospital is accepting blood donations from eligible blood donors. They had 22 eligible blood donors last month, and each of them donated 450 ml of blood. The public hospital received about _____ L of blood altogether.
 - a. 9
 - b. 10
 - c. 99

Answers

1. $(5 \times 4.3) + (2 \times 4.3) = 21.5 + 8.6 = 30.1$ or 30,100 ml
He bought 30,100 ml of paint in all.
2. $6 \times 12 = 72$
72 ml of alcohol was released.
 $350 - 72 = 278$
There would still be 278 ml left in the spray container.
3. $3,200 \text{ ml} = 3 \text{ L } 200 \text{ ml}$
 $3 \text{ L } 200 \text{ ml} - 2 \text{ L } 800 \text{ ml} = 400 \text{ ml}$
400 ml of water was lost as it boiled.
4. $10 \text{ L } 200 \text{ ml} = 10.2 \text{ L}$, $9 \text{ L } 500 \text{ ml} = 9.5 \text{ L}$
 $10.2 \text{ L} + 9.5 \text{ L} = 19.7 \text{ L}$
 $19.7 \text{ L} \times 11 = 216.7 \text{ L}$
 $220 \text{ L} - 216.7 \text{ L} = 3.3 \text{ L}$
He still needs to fetch 3.3 L of water to reach the full capacity of the water drum.
5. $20,900 = 20.9 \text{ L}$
 $22.8 \text{ L} - 20.9 \text{ L} = 1.9 \text{ L}$
There was 1.9 L of gasoline left in the car before refilling.
 $20.9 \times 1.1 = \$22.99$
Mark paid \$22.99 for refilling his gas tank.
6. $22 \times 450 = 9,900 \text{ ml}$
 $9,900 = 9.9 \text{ L}$
Answer is (b).