

Volume and capacity word problems (metric units)

Grade 4 Word Problems Worksheet

1. A juice box contains 230 ml of juice, and a bottle of juice contains 960 ml. How much more juice is there in the bottle compared to the box?

2. There is a pitcher with 1.5 L of fruit punch. If each paper cup can hold 300ml of punch, how many cups can the pitcher fill up?

3. Bernice made 950 ml of gravy to go with her 5 kg turkey. The capacity of the gravy dish is 540 ml. How much gravy will be left in the pot after Bernice fills up the gravy dish?



4. A water bottle has the capacity of 1.8 L. Emily did not know that there was a crack at the bottom of the bottle and filled up the bottle. Later, she found that only 1.3 L of water was in the bottle. How much water leaked out from the bottle? Answer in milliliters.

5. The camp chef decided to make 160 pancakes for breakfast. According to the recipe, he needs to mix 24 ml of milk and 12 ml of water for each pancake. What is the total volume of the mixture in liters?

6. The capacity of a mixing bowl is 2.3 L, and the capacity of a pot is 2000 ml. Which holds more?

Answers

1. $960 - 230 = 730$
The pot can hold 4 cans of soup.
2. $1.5 \text{ L} = 1500 \text{ ml}$
 $1500 \div 300 = 5$
The pitcher can fill up 5 paper cups.
3. $950 - 540 = 410$
410 ml of gravy will be left in the pot.
4. $1.8 - 1.3 = 0.5$
 $0.5 \text{ L} = 500 \text{ ml}$
500 ml of water leaked out from the bottle.
5. $24 + 12 = 36 \text{ ml per pancake}$
 $160 \times 36 = 5,760 \text{ ml} = 5.76 \text{ L}$
The total volume of the mixture is 5.76 L.
6. $2.3 \text{ L} = 2300 \text{ ml}$
The mixing bowl holds more.