

Class 4 Mathematics Advanced MCQ Practice Test (Original Set)

Topic: Advanced Measurement (Length, Weight, & Volume)

Q1. An empty bucket weights 850 grams. When it is filled completely with water, the total weight becomes 4 kg 250 g. What is the weight of the water alone?

- A) 3 kg 400 g B) 3 kg 600 g C) 4 kg D) 5 kg 100 g

Q2. Sneha has a ribbon that is 3 metres long. She cuts off a piece measuring 85 cm for her project, and another piece measuring 1 m 40 cm for her sister. How much ribbon is left?

- A) 25 cm B) 75 cm C) 1 m 15 cm D) 2 m 25 cm

Q3. A small cough syrup bottle holds 60 ml of liquid. A pharmacist needs to pack a box with enough bottles to make a total volume of exactly 3 litres. How many bottles must be put in the box?

- A) 5 bottles B) 20 bottles C) 50 bottles D) 500 bottles

Q4. Rohan runs around a square park whose side is 250 metres long. If he wants to complete a total run of exactly 3 kilometres, how many full rounds of the park must he complete?

- A) 3 rounds B) 4 rounds C) 6 rounds D) 12 rounds

Q5. A grocery store sells rice in bags of 5 kg. A chef needs 22 kg 500 g of rice for a big party. What is the minimum number of bags the chef must buy?

- A) 4 bags B) 5 bags C) 6 bags D) 23 bags

Q6. A water dispenser tank holds 15 litres of water. During the day, 4 students fill their 750 ml water bottles completely from the tank. How much water is left in the dispenser?

- A) 3 litres B) 11 litres C) 12 litres D) 14 litres 250 ml

Q7. Four friends measured their heights. Aarav is 1 m 35 cm, Bilal is 142 cm, Carol is 1 m 29 cm, and Deepa is 138 cm. Who is the tallest among them?

A) Aarav B) Bilal C) Carol D) Deepa

Q8. A package containing 8 identical math textbooks weighs a total of 6 kg. If the cardboard box itself weighs 400 grams, what is the weight of a single textbook?

A) 700 g B) 750 g C) 800 g D) 5 kg 600 g

Q9. To make a special fruit punch, Maya mixes 2 L 250 ml of orange juice, 1 L 500 ml of apple juice, and 750 ml of lemonade. What is the total volume of the fruit punch?

A) 3 L 500 ml B) 4 L C) 4 L 500 ml D) 5 L

Q10. A standard large brick has a mass of 2 kg 500 g. A small truck can carry a maximum load of exactly 1 tonne (1,000 kg). What is the maximum number of bricks the truck can safely transport?

A) 40 bricks B) 250 bricks C) 400 bricks D) 2,500 bricks

ANSWER KEY WITH LOGIC HINTS:

1. A (Total weight 4250 g - bucket 850 g = 3400 g, which is 3 kg 400 g)
2. B (Total used: 85 cm + 140 cm = 225 cm. Leftover: 300 cm - 225 cm = 75 cm)
3. C (3 litres = 3,000 ml. Total bottles = $3000 \div 60 = 50$ bottles)
4. A (One round = $250\text{m} \times 4 = 1000\text{m} = 1 \text{ km}$. To run 3 km, he needs 3 full rounds)
5. B (4 bags = 20 kg, which is not enough. 5 bags = 25 kg, which covers the required 22.5 kg)
6. C ($4 \text{ bottles} \times 750 \text{ ml} = 3,000 \text{ ml} = 3 \text{ litres}$ used. Water left = $15 \text{ L} - 3 \text{ L} = 12 \text{ litres}$)
7. B (Converting to cm: Aarav = 135 cm, Bilal = 142 cm, Carol = 129 cm, Deepa = 138 cm)
8. A (Books total weight = $6000 \text{ g} - 400 \text{ g} = 5600 \text{ g}$. Single book = $5600 \text{ g} \div 8 = 700 \text{ g}$)
9. C ($2250 \text{ ml} + 1500 \text{ ml} + 750 \text{ ml} = 4500 \text{ ml}$, which equals 4 L 500 ml)
10. C (1 tonne = 1,000,000 g. One brick = 2,500 g. $1,000,000 \div 2,500 = 400$ bricks)