Unit 10 · Capacity

HARDER PRACTICE QUESTIONS

Full marks 33

Write your answers on separate paper. Show your working, and write the unit with every answer. 1 l = 1000 ml. The prices, doses and people on this sheet are made up for the problems.

1 Bottles from a jar [3]

A 20 l jar of drinking water is poured into bottles that hold 1 l 500 ml each.

i. How many bottles can be filled to the top?
ii. How much water is left in the jar?
iii. How much more water would fill one more bottle?

2 Medicine for two [4]

A bottle of cough syrup holds 100 ml. A teaspoonful is 5 ml. Aaryan and his sister each take 2 teaspoonfuls at a time, twice a day. (Always take medicine as the doctor says.)

i. How much syrup do the two of them take in a day?
ii. For how many full days does one bottle last? How much is left then?
iii. They must take it for 5 days. How many bottles must their family buy?

3 Right or wrong? [3]

Abinash did three sums. Say which are right. Correct the wrong ones.

i. 2 l 75 ml = 275 ml
ii. 3 l 600 ml ÷ 3 = 1 l 200 ml
iii. 4 l ÷ 250 ml = 16 ml

4 The tank on the roof [4]

A family's tank on the roof holds 500 l. It is full in the morning. They use 85 l 750 ml in the morning and 114 l 250 ml later in the day.

i. How much water do they use in the day?
ii. How much is left in the tank?
iii. A pump puts 25 l a minute into the tank. How long does it take to fill it again?
iv. If they use the same amount every day, how much do they use in a week?

5 Mixing a drink [4]

A bottle of orange squash says: "Mix 1 cup of squash with 4 cups of water." Bhumika's cup holds 200 ml. She wants to make 6 l of the drink for a party.

i. How much drink does one mixing make, 1 cup of squash and 4 cups of water?
ii. How many times must she mix it to make 6 l?
iii. How much squash and how much water does she need in all?

6 Which is the best buy? [4]

A shop sells mustard oil in three sizes.

Pack	Holds	Price
A bottle	1 l	Rs. 240
A pouch	500 ml	Rs. 130
A can	5 l	Rs. 1,150

i. What does 1 l of oil cost in each pack?
ii. Which pack is cheapest for each liter? Which is dearest?
iii. Saugat needs 2 l of oil and has Rs. 500. What should he buy?

7 At the dairy [4]

Nine farmers each bring 12 l 750 ml of milk to a dairy cooperative every day.

i. How much milk does the dairy get in a day?
ii. The milk is sent to the city in cans of 40 l. How many cans are needed each day?
iii. How much milk does the dairy get in a week?

8 Think: two jugs [4]

You have a tap, a 5 l jug and a 3 l jug. The jugs have no marks on them. How can you get exactly 4 l of water in the 5 l jug? Write each step, and how much is in each jug after it.

9 Make your own [3]

You have cups of 100 ml, 200 ml and 250 ml, as many as you like.

i. Find three different ways to fill a 1 l bottle exactly.
ii. Using only 200 ml and 250 ml cups, how can you get exactly 1 l 50 ml?