

## Measurement of Volume

### Grade 2

Name: \_\_\_\_\_ Date: \_\_\_\_\_

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#### Section A: Choose the Correct Unit 🎯

Choose ml (millilitre) or l (litre) for each item

1. A swimming pool: \_\_\_\_\_
  2. A spoon of cough syrup: \_\_\_\_\_
  3. A bucket of water: \_\_\_\_\_
  4. Eye drops: \_\_\_\_\_
  5. A bathtub full of water: \_\_\_\_\_
  6. A juice box: \_\_\_\_\_
  7. A water tank: \_\_\_\_\_
  8. An injection: \_\_\_\_\_
  9. A soft drink bottle: \_\_\_\_\_
  10. A teaspoon: \_\_\_\_\_
  11. A fish tank: \_\_\_\_\_
  12. Hand sanitizer bottle: \_\_\_\_\_
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#### Section B: What Are They Measured In? 😬

Write 'Length', 'Weight', or 'Volume'

Item	Measured in?
1. Cloth/Fabric	_____
2. Butter	_____

Item	Measured in?
3. Water	_____
4. Ribbon	_____
5. Milk	_____
6. Rice	_____
7. Juice	_____
8. Thread	_____
9. Oil	_____
10. Sugar	_____
11. Petrol	_____
12. Wire	_____

Section C: Conversion Questions: 

Part 1: l to ml

Convert the following:

1. 9 l = \_\_\_\_\_ ml

2. 15 l = \_\_\_\_\_ ml

3. 28 l = \_\_\_\_\_ ml

4. 42 l = \_\_\_\_\_ ml

5. 6 l = \_\_\_\_\_ ml

6. 20 l = \_\_\_\_\_ ml

7. 55 l = \_\_\_\_\_ ml

8. 11 l = \_\_\_\_\_ ml

9. 37 l = \_\_\_\_\_ ml

10. 100 l = \_\_\_\_\_ ml

Part 2: ml to l

Convert the following:

11. 7000 ml = \_\_\_\_\_ l

12. 9000 ml = \_\_\_\_\_ l

13. 16000 ml = \_\_\_\_\_ l

14. 4000 ml = \_\_\_\_\_ l

15. 25000 ml = \_\_\_\_\_ ml

16. 8500 ml = \_\_\_\_\_ l \_\_\_\_\_ ml

17. 12750 ml = \_\_\_\_\_ l \_\_\_\_\_ ml

18. 6200 ml = \_\_\_\_\_ l \_\_\_\_\_ ml

19. 15080 ml = \_\_\_\_\_ l \_\_\_\_\_ ml

20. 32650 ml = \_\_\_\_\_ l \_\_\_\_\_ ml

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Section D: Addition of l and ml (Vertical) +

Solve these vertical addition problems

1.

l ml

48 450

+ 36 625

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2.

l ml

32 780

+ 19 540

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3.

l ml

75 835

+ 58 690

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4.

l ml

61 925

+ 42 685

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5.

l ml

84 575

+ 37 845

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6.

l ml

93 880

+ 68 920

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7.

l ml

45 650

+ 56 780

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8.

l ml

108 765

+ 74 935

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9.

l ml

136 720

+ 95 895

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10.

l ml

178 940

+ 265 975

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Section E: Addition of l and ml (Horizontal) +

Solve these horizontal addition problems

1. 38 l 350 ml + 29 l 750 ml = \_\_\_\_\_

2. 64 l 825 ml + 51 l 680 ml = \_\_\_\_\_

3. 97 l 570 ml + 76 l 845 ml = \_\_\_\_\_

4. 45 l 940 ml + 39 l 785 ml = \_\_\_\_\_

5. 142 l 490 ml + 108 l 860 ml = \_\_\_\_\_

6. 83 l 915 ml + 67 l 895 ml = \_\_\_\_\_

7. 119 l 635 ml + 94 l 875 ml = \_\_\_\_\_

8. 72 l 560 ml + 68 l 950 ml = \_\_\_\_\_

9. 238 l 780 ml + 187 l 935 ml = \_\_\_\_\_

10. 105 l 840 ml + 98 l 975 ml = \_\_\_\_\_

Section F: Subtraction of l and ml (Vertical) —

Solve these vertical subtraction problems

1.

l ml

68 825

- 35 510

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2.

l ml

92 600

- 47 850

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3.

l ml

105 400

- 58 725

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4.

l ml

136 550

- 79 780

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5.

l ml

84 300

- 46 925

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6.

l ml

175 0

- 98 645

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7.

l ml

220 625

- 167 890

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8.

l ml

103 150

- 67 575

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9.

l ml

195 420

- 138 865

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10.

l ml

280 350

- 194 785

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Section G: Subtraction of l and ml (Horizontal) —

Solve these horizontal subtraction problems

1. 86 l 750 ml – 42 l 425 ml = \_\_\_\_\_

2. 118 l 400 ml – 75 l 850 ml = \_\_\_\_\_

3. 157 l 680 ml – 94 l 935 ml = \_\_\_\_\_



3. A swimming pool has 4500 l of water. A pipe adds 875 l 250 ml more water. What is the total volume of water now?

Answer: \_\_\_\_\_

4. Mom bought 5 l 450 ml of milk on Monday and 7 l 825 ml on Tuesday. How much milk did she buy in total?

Answer: \_\_\_\_\_

5. A car's fuel tank can hold 60 l of petrol. If it already has 37 l 680 ml, how much more petrol can be added?

Answer: \_\_\_\_\_

6. Three containers hold 18 l 350 ml, 24 l 725 ml, and 32 l 580 ml of water. What is their combined volume?

Answer: \_\_\_\_\_

7. A milk vendor had 185 l 500 ml of milk. He sold 98 l 750 ml in the morning and 62 l 900 ml in the evening. How much milk is left?

Answer: \_\_\_\_\_

8. A recipe needs 750 ml of water. If you want to make this recipe 12 times, how much water do you need in l and ml?

Answer: \_\_\_\_\_

9. A bucket holds 20 l when full. If it currently has 13 l 850 ml, how much more water is needed to fill it?

Answer: \_\_\_\_\_

10. Four friends bought drinks: 2 l 250 ml, 1 l 750 ml, 3 l 500 ml, and 2 l 850 ml. What is the total volume of drinks?

Answer: \_\_\_\_\_

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### Section I: Comparison Questions

Circle the larger volume

1. 5500 ml OR 5 l 600 ml
2. 14 l 350 ml OR 14500 ml
3. 9850 ml OR 9 l 700 ml
4. 28 l OR 27850 ml
5. 7 l 920 ml OR 7950 ml
6. 16400 ml OR 16 l 300 ml

7. 35 l 525 ml OR 35600 ml
  8. 11 l 80 ml OR 11800 ml
  9. 20750 ml OR 20 l 700 ml
  10. 65 l OR 64999 ml
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Section J: Fill in the Blanks 

Complete the statements

1. 1 l = \_\_\_\_\_ ml
  2. 6000 ml = \_\_\_\_\_ l
  3. Half litre = \_\_\_\_\_ ml
  4. 4500 ml = \_\_\_\_\_ l \_\_\_\_\_ ml
  5. Quarter litre = \_\_\_\_\_ ml
  6. 18 l = \_\_\_\_\_ ml
  7. 10250 ml = \_\_\_\_\_ l \_\_\_\_\_ ml
  8. 3 l 850 ml = \_\_\_\_\_ ml
  9. 55000 ml = \_\_\_\_\_ l
  10. 2 l 75 ml = \_\_\_\_\_ ml
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Section K: True or False ✓/X

Write 'True' or 'False' (1 mark each)

1. 1000 ml = 1 l \_\_\_\_\_
2. 5 l is more than 5500 ml \_\_\_\_\_
3. We measure tea in litres \_\_\_\_\_
4. A bathtub is measured in ml \_\_\_\_\_

5. 3000 ml = 3 l \_\_\_\_\_
  6. Medicine syrup is measured in litres \_\_\_\_\_
  7. Half litre = 500 ml \_\_\_\_\_
  8. 10 l = 10000 ml \_\_\_\_\_
  9. A bucket of water is measured in ml \_\_\_\_\_
  10. 7 l 500 ml = 7500 ml \_\_\_\_\_
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### Section L: Multi-Step Challenge Problems 🏆

Solve these advanced problems

1. A container holds 35 l 600 ml of juice. If 12 l 850 ml is poured out and then 8 l 425 ml is added back, what is the final volume?

Answer: \_\_\_\_\_

2. A water cooler has 45 l of water. Four people drink 2 l 750 ml, 1 l 950 ml, 3 l 625 ml, and 2 l 480 ml respectively. How much water remains?

Answer: \_\_\_\_\_

3. A farmer fills 15 bottles with 750 ml of milk each. What is the total volume of milk in l and ml?

Answer: \_\_\_\_\_

4. Three tanks contain 125 l 450 ml, 98 l 725 ml, and 142 l 890 ml of water. If 186 l 950 ml is used from the total, how much water is left?

Answer: \_\_\_\_\_

5. A bucket can hold 25 l. If you pour in 8 l 650 ml, then 12 l 425 ml, and then 3 l 875 ml, will it overflow? If yes, by how much? If no, how much more can be added?

Answer: \_\_\_\_\_

6. Convert and add:  $3500 \text{ ml} + 4 \text{ l } 850 \text{ ml} + 2750 \text{ ml} + 5 \text{ l } 300 \text{ ml} = ?$  (Give answer in l and ml)

Answer: \_\_\_\_\_

7. A juice factory produces  $450 \text{ l } 500 \text{ ml}$  of juice. It is packed into  $500 \text{ ml}$  bottles. How many full bottles can be made, and how much juice will be left over?

Answer: \_\_\_\_\_

8. A tap fills a tank at  $2 \text{ l } 500 \text{ ml}$  per minute. How much water will fill in 6 minutes?

Answer: \_\_\_\_\_

9. From a full 50 l water dispenser, water is used as follows: Day 1: 18 l 750 ml, Day 2: 22 l 680 ml. How much water is left for Day 3?

Answer: \_\_\_\_\_

10. Four containers have capacities of 5 l, 8 l 500 ml, 12 l 750 ml, and 6 l 250 ml. What is the difference between the total capacity and 30 l?

Answer: \_\_\_\_\_

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 ANSWER KEY

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Section A: Choose the Correct Unit

1. l (litre)
  2. ml (millilitre)
  3. l (litre)
  4. ml (millilitre)
  5. l (litre)
  6. ml (millilitre)
  7. l (litre)
  8. ml (millilitre)
  9. l (litre)
  10. ml (millilitre)
  11. l (litre)
  12. ml (millilitre)
- 

Section B: What Are They Measured In?

1. Length
2. Weight
3. Volume
4. Length
5. Volume
6. Weight
7. Volume

8. Length
  9. Volume
  10. Weight
  11. Volume
  12. Length
- 

### Section C: Conversion Questions

#### Part 1: l to ml

1. 9000 ml
2. 15000 ml
3. 28000 ml
4. 42000 ml
5. 6000 ml
6. 20000 ml
7. 55000 ml
8. 11000 ml
9. 37000 ml
10. 100000 ml

#### Part 2: ml to l

11. 7 l
12. 9 l
13. 16 l
14. 4 l
15. 25 l

16. 8 l 500 ml
  17. 12 l 750 ml
  18. 6 l 200 ml
  19. 15 l 80 ml
  20. 32 l 650 ml
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#### Section D: Addition (Vertical)

1. 85 l 75 ml
  2. 52 l 320 ml
  3. 134 l 525 ml
  4. 104 l 610 ml
  5. 122 l 420 ml
  6. 162 l 800 ml
  7. 102 l 430 ml
  8. 183 l 700 ml
  9. 232 l 615 ml
  10. 444 l 915 ml
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#### Section E: Addition (Horizontal)

1. 68 l 100 ml
2. 116 l 505 ml
3. 174 l 415 ml
4. 85 l 725 ml
5. 251 l 350 ml

6. 151 | 810 ml
  7. 214 | 510 ml
  8. 141 | 510 ml
  9. 426 | 715 ml
  10. 204 | 815 ml
- 

#### Section F: Subtraction (Vertical)

1. 33 | 315 ml
2. 44 | 750 ml
3. 46 | 675 ml
4. 56 | 770 ml
5. 37 | 375 ml
6. 76 | 355 ml
7. 52 | 735 ml
8. 35 | 575 ml
9. 56 | 555 ml
10. 85 | 565 ml

#### Section G: Subtraction (Horizontal)

1. 44 | 325 ml
2. 42 | 550 ml
3. 62 | 745 ml
4. 35 | 535 ml
5. 76 | 360 ml

6. 38 l 635 ml
  7. 66 l 355 ml
  8. 46 l 475 ml
  9. 67 l 655 ml
  10. 83 l 445 ml
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### Section H: Word Problems

1. 38 l 125 ml (125 l 750 ml – 87 l 625 ml)
  2. 444 l 350 ml (248 l 500 ml + 195 l 850 ml)
  3. 5375 l 250 ml or 5 l 375 l 250 ml (4500 l + 875 l 250 ml)
  4. 13 l 275 ml (5 l 450 ml + 7 l 825 ml)
  5. 22 l 320 ml (60 l – 37 l 680 ml)
  6. 75 l 655 ml (18 l 350 ml + 24 l 725 ml + 32 l 580 ml)
  7. 23 l 850 ml (185 l 500 ml – 98 l 750 ml – 62 l 900 ml)
  8. 9 l 0 ml (750 ml  $\times$  12 = 9000 ml = 9 l)
  9. 6 l 150 ml (20 l – 13 l 850 ml)
  10. 10 l 350 ml (2 l 250 ml + 1 l 750 ml + 3 l 500 ml + 2 l 850 ml)
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### Section I: Comparison Questions

1. 5 l 600 ml (larger)
2. 14500 ml (larger)
3. 9850 ml (larger)
4. 28 l (larger)
5. 7950 ml (larger)

6. 16 l 300 ml (larger)
  7. 35600 ml (larger)
  8. 11800 ml (larger)
  9. 20750 ml (larger)
  10. 65 l (larger)
- 

#### Section J: Fill in the Blanks

1. 1000 ml
2. 6 l
3. 500 ml
4. 4 l 500 ml
5. 250 ml
6. 18000 ml
7. 10 l 250 ml
8. 3850 ml
9. 55 l
10. 2075 ml

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#### Section K: True or False

1. True
2. False (5 l = 5000 ml, which is less than 5500 ml)
3. False (tea is measured in ml, not litres)
4. False (bathtub is measured in litres)
5. True

6. False (medicine syrup is measured in ml)
  7. True
  8. True
  9. False (bucket of water is measured in litres)
  10. True
- 

### Section L: Multi-Step Challenge Problems

1. 31 l 175 ml

- Start: 35 l 600 ml
- After pouring out:  $35\text{ l } 600\text{ ml} - 12\text{ l } 850\text{ ml} = 22\text{ l } 750\text{ ml}$
- After adding:  $22\text{ l } 750\text{ ml} + 8\text{ l } 425\text{ ml} = 31\text{ l } 175\text{ ml}$

2. 34 l 195 ml

- Total drunk:  $2\text{ l } 750\text{ ml} + 1\text{ l } 950\text{ ml} + 3\text{ l } 625\text{ ml} + 2\text{ l } 480\text{ ml} = 10\text{ l } 805\text{ ml}$
- Remaining:  $45\text{ l} - 10\text{ l } 805\text{ ml} = 34\text{ l } 195\text{ ml}$

3. 11 l 250 ml

- $750\text{ ml} \times 15 = 11250\text{ ml} = 11\text{ l } 250\text{ ml}$

4. 180 l 115 ml

- Total:  $125\text{ l } 450\text{ ml} + 98\text{ l } 725\text{ ml} + 142\text{ l } 890\text{ ml} = 367\text{ l } 65\text{ ml}$
- Remaining:  $367\text{ l } 65\text{ ml} - 186\text{ l } 950\text{ ml} = 180\text{ l } 115\text{ ml}$

5. No, it will not overflow. 50 ml more can be added.

- Total poured:  $8\text{ l } 650\text{ ml} + 12\text{ l } 425\text{ ml} + 3\text{ l } 875\text{ ml} = 24\text{ l } 950\text{ ml}$
- Remaining capacity:  $25\text{ l} - 24\text{ l } 950\text{ ml} = 50\text{ ml}$

6. 16 l 400 ml

- $3500\text{ ml} + 4850\text{ ml} + 2750\text{ ml} + 5300\text{ ml} = 16400\text{ ml} = 16\text{ l } 400\text{ ml}$

7. 901 bottles with 0 ml left over

- $450 \text{ l } 500 \text{ ml} = 450500 \text{ ml}$
- $450500 \div 500 = 901 \text{ bottles exactly}$

8. 15 l 0 ml

- $2 \text{ l } 500 \text{ ml} \times 6 = 15000 \text{ ml} = 15 \text{ l}$

9. 8 l 570 ml

- Used:  $18 \text{ l } 750 \text{ ml} + 22 \text{ l } 680 \text{ ml} = 41 \text{ l } 430 \text{ ml}$
- Remaining:  $50 \text{ l} - 41 \text{ l } 430 \text{ ml} = 8 \text{ l } 570 \text{ ml}$

10. 2 l 500 ml

- Total capacity:  $5 \text{ l} + 8 \text{ l } 500 \text{ ml} + 12 \text{ l } 750 \text{ ml} + 6 \text{ l } 250 \text{ ml} = 32 \text{ l } 500 \text{ ml}$
- Difference:  $32 \text{ l } 500 \text{ ml} - 30 \text{ l} = 2 \text{ l } 500 \text{ ml}$

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