

CLASS NOTES

Class: 4

Chapter : 7

Subject: Mathematics

Jugs & Mugs

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CONVERSION!

Fill in the blanks. Be Quick! Put your score on the marks meter.

1. $2300 \text{ ml} = 2 \text{ l } 300 \text{ ml}$

2. $7008 \text{ ml} = 7 \text{ l } 8 \text{ ml}$

3. $15080 \text{ ml} = 15 \text{ l } 80 \text{ ml}$

4. $4 \text{ l } 698 \text{ ml} = 4,698 \text{ ml}$

5. $6 \text{ l } 954 \text{ ml} = 6954 \text{ ml}$

6. $8000 \text{ ml} = 8 \text{ l}$

7. $14 \text{ l } 600 \text{ ml} = 14,600 \text{ ml}$

8. $3 \text{ l } 40 \text{ ml} = 3040 \text{ ml}$

9. $20 \text{ l } 50 \text{ ml} = 20,500 \text{ ml}$

10. $6902 \text{ ml} = 6 \text{ l } 902 \text{ ml}$

11. $10,450 \text{ ml} = 10 \text{ l } 450 \text{ ml}$

12. $5 \text{ l } 20 \text{ ml} > 520 \text{ ml} (>, <, =)$

13. $5000 \text{ ml} = 5 \text{ l} (>, <, =)$

14. $4 \text{ l } 600 \text{ ml} > 4060 \text{ ml} (>, <, =)$

15. $10 \text{ l } 10 \text{ ml} > 1010 \text{ ml} (>, <, =)$



ADD/SUBTRACT

1. Find the sum:

$$\begin{array}{r} \text{(a)} \quad \text{l} \quad \text{ml} \\ 4 \quad 825 \\ + \quad 2 \quad 175 \end{array}$$

7 l 000ml

$$\begin{array}{r} \text{(b)} \quad \text{l} \quad \text{ml} \\ 13 \quad 592 \\ + \quad 8 \quad 095 \end{array}$$

21 l 687ml

$$\begin{array}{r} \text{(c)} \quad 6 \text{ l } 40 \text{ ml}, 10 \text{ l } 954 \text{ ml} \\ \quad \text{l} \quad \text{ml} \\ \quad 06 \quad 040 \\ + 10 \quad 954 \\ \hline 16 \text{ l } 994 \text{ ml} \end{array}$$

$$\begin{array}{r} \text{(d)} \quad 96 \text{ l } 20 \text{ ml}, 100 \text{ l} \\ \quad \text{l} \quad \text{ml} \\ \quad 96 \quad 020 \\ + 100 \quad 000 \\ \hline 196 \text{ l } 020 \text{ ml} \end{array}$$

$$\begin{array}{r} \text{(e)} \quad 12 \text{ l}, 6 \text{ l}, 16 \text{ ml}, 20 \text{ l } 430 \text{ ml} \\ \quad \text{l} \quad \text{ml} \\ \quad 12 \quad 000 \\ + 06 \quad 000 \\ + 20 \quad 430 \\ \hline 38 \text{ l } 430 \text{ ml} \end{array}$$

$$\begin{array}{r} \text{(f)} \quad 44 \text{ l}, 4 \text{ l } 44 \text{ ml}, 4 \text{ l } 444 \text{ ml} \\ \quad \text{l} \quad \text{ml} \\ \quad 44 \quad 000 \\ + 04 \quad 044 \\ + 04 \quad 444 \\ \hline 52 \text{ l } 488 \text{ ml} \end{array}$$

2. Find the difference:

$$\begin{array}{r} \text{(a)} \quad \text{l} \quad \text{ml} \\ 8 \quad 702 \\ - 5 \quad 427 \end{array}$$

3 l 275ml

$$\begin{array}{r} \text{(b)} \quad \text{l} \quad \text{ml} \\ 11 \quad 950 \\ - \quad 7 \quad 675 \end{array}$$

4 l 275ml

$$\begin{array}{r} \text{(c)} \quad 46 \text{ l } 356 \text{ ml and } 27 \text{ l } 406 \text{ ml} \\ \quad \text{l} \quad \text{ml} \\ \quad 46 \quad 356 \\ - 27 \quad 406 \\ \hline 18 \text{ l } 950 \text{ ml} \end{array}$$

$$\begin{array}{r} \text{(d)} \quad 100 \text{ l and } 29 \text{ l } 30 \text{ ml} \\ \quad \text{l} \quad \text{ml} \\ \quad 100 \quad 000 \\ + 29 \quad 030 \\ \hline 70 \text{ l } 970 \text{ ml} \end{array}$$

$$\begin{array}{r} \text{(e)} \quad 68 \text{ l } 4 \text{ ml and } 24 \text{ l } 354 \text{ ml} \\ \quad \text{l} \quad \text{ml} \\ \quad 68 \quad 004 \\ - 24 \quad 354 \\ \hline 43 \text{ l } 650 \text{ ml} \end{array}$$

$$\begin{array}{r} \text{(f)} \quad 99 \text{ l and } 98 \text{ l } 215 \text{ ml} \\ \quad \text{l} \quad \text{ml} \\ \quad 99 \quad 000 \\ - 98 \quad 215 \\ \hline 00 \text{ l } 785 \text{ ml} \end{array}$$

STORY TIME!

HOW MANY!

1. The vessel in which Maya boils milk can hold $3\frac{1}{2}$ l of milk. How many $\frac{1}{2}$ l packets of milk can Maya pour into it?

Capacity of vessel = $3\frac{1}{2}$ l or 3500 ml

Capacity of packet = $\frac{1}{2}$ l or 500 ml

No. of packets that can be poured = $3500/500 = 7$ packets.

Ans.: Maya can pour 7 packets of milk



2. Shilpi makes 9 l of mango squash. How many $1\frac{1}{2}$ l bottles will she need to put the squash in?

Quantity of Mango squash = 9 l or 9000 ml

Capacity of bottle = $1\frac{1}{2}$ l or 1500 ml

No. of bottles needed = $9000/1500 = 6$ bottles

Ans.: Shilpi will need 6 bottles.



3. Eight cups of 250 ml coffee are poured into a thermos. How many more cups of coffee can be poured into the thermos if it can hold 2 l of coffee?

Capacity of thermos = 2 l or 2000 ml

Coffee poured = $250 \times 8 = 2000$ ml

Ans.: We can't pour more coffee, as the thermos is already filled.



4. A bottle contains 300 ml of Pepsi. How many bottles will be required to get 6 l of Pepsi?

Capacity of bottle = 300 ml

Quantity of Pepsi required = 6 l or 6000 ml

No. of bottles required to make 6 l = $6000/300 = 20$

Ans.: No. of bottles required = 20



5. A can contains 2 l 500 ml of oil. How many bottles of 250 ml are required to store the oil?

Quantity of oil = 2 l 500 ml or 2500 ml

Capacity of bottles = 250 ml

No. of bottles required to store oil = $2500/250 = 10$

Ans.: No. of bottles required = 10



STORY TIME!

1. A container contains $13 \frac{1}{50}$ ml of milk. Out of which $5 \frac{1}{250}$ ml of milk is used for making sweets. How much milk is left in the container?

$$\begin{array}{r} \text{Quantity of milk} = 13 \frac{1}{50} \text{ ml} \\ \text{Quantity of milk used} = - 5 \frac{1}{250} \text{ ml} \\ \hline 7 \frac{1}{800} \text{ ml} \end{array}$$



Ans.: Quantity of milk left in the container = $7 \frac{1}{800}$ ml

2. A petrol tanker contains 999 l of petrol. It pours $496 \frac{1}{60}$ ml of petrol into the tank of a petrol pump. How much petrol is left in the tanker?

$$\begin{array}{r} \text{Petrol in tanker} = 999 \frac{1}{1000} \text{ ml} \\ \text{Petrol poured in petrol pump} = - 496 \frac{1}{60} \text{ ml} \\ \hline 502 \frac{1}{940} \text{ ml} \end{array}$$



Ans.: Quantity of petrol left in the tanker = $502 \frac{1}{940}$ ml

3. Ram bought $10 \frac{1}{695}$ ml of kerosene oil and Renu bought $25 \frac{1}{60}$ ml of kerosene oil. How much kerosene oil did they buy altogether?

$$\begin{array}{r} \text{Ram bought} \quad 10 \frac{1}{695} \text{ ml of kerosene} \\ \text{Renu bought} \quad + 25 \frac{1}{60} \text{ ml of kerosene} \\ \hline 35 \frac{1}{755} \text{ ml} \end{array}$$



Ans.: Total quantity of kerosene = $35 \frac{1}{755}$ ml

4. For a party Lara bought $29 \frac{1}{500}$ ml of Limca, Hari bought 11 l of Cola and Sam bought $30 \frac{1}{750}$ ml of Miranda. What is the total quantity of soft drinks bought at the party?

$$\begin{array}{r} \text{Lara bought} \quad 29 \frac{1}{500} \text{ ml of Limca} \\ \text{Hari bought} \quad + 11 \frac{1}{1000} \text{ ml of Cola} \\ \text{Sam bought} \quad + 30 \frac{1}{750} \text{ ml of Miranda} \\ \hline 71 \frac{1}{250} \text{ ml} \end{array}$$



Ans.: Total quantity of soft drinks = $71 \frac{1}{250}$ ml

CHALLENGE:!

You have a 5 l jar and a 2 l jar. How can you measure 1 l with them?

Step 1: From the 5 l jar pour in the 2 l jar (quantity left in 5 l jar would be 3 litre)

Step 2: Empty the 2 l jar.

Step 3: Pour again from the 5 l jar pour in the 2 l jar

(quantity left in 5 l jar would be 1 litre)