Chapter – 4

Measurements

Ex 4.1

Question 1.
Fill in the blanks.

(i) 7 kg 400 g = _____ g

Answer:
7400

(ii) 5 g 50 mg = _____ mg

Answer:
5050

(iii) 9500 mg = _____ g _____ mg

Answer:
9,500

(iv) 15 kg 350 g = _____ g

Answer:
15350

(v) 6250 g = _____ kg _____ g

Answer:
6,250

Question 2.
Add the following:

(i) 4 kg 250 g + 3 kg 450 g

Answer:

	kg	g
		(1)
	4	250
+	3	450
	7	**700**

4 kg 250 g + 3 kg 450 g = 7 kg 700 g

(ii) 75g 430 mg + 750 g

Answer:

g	mg
75	430
(+) 750	000
825	**430**

75g 430 mg + 750 g = 825 g 430 mg

(iii) 97 kg 45 g + 77 kg 450g + 33 kg 250 g

Answer:

kg	g
(1)	(1)
97	45
77	450
(+) 33	250
207	**745**

97 kg 45 g + 77 kg 450g + 33 kg 250 g = 207 kg 745 g

(iv) 75 kg 400 g + 30 kg 250 g

Answer:

kg	g
75	400
(+) 30	250
105	**650**

75 kg 400 g + 30 kg 250 g = 105 kg 650 g

Question 3.
Subtract the following:

(i) 40 kg 350 g – 25 kg 200 g

Answer:

Kg	g
40	350
(-) 25	200
15	150

40 kg 350 g – 25 kg 200 g = 15 kg 150 g

(ii) 35 kg 850 g – 18 kg 500 g

Answer:

kg	g
35	850
(-) 25	500
17	350

35 kg 850 g – 18 kg 500 g = 17 kg 350 g

(iii) 985 kg 475 g – 275 kg 325 g

Answer:

kg	g
985	475
(-)275	325
710	**150**

985 kg 475 g – 275 kg 325 g = 710 kg 150 g

(iv) 700 kg – 300 kg 500 g

Answer:

kg	g
700	000
300	500
399	500

700 kg – 300 kg 500 g = 399 kg 500 g

Question 4.
Multiply the following:

(i) 4 kg 300 g × 7

Answer:

(2)

4 kg	300 g × 7
30 kg	**100 g**

4 kg 300 g × 7 = 30 kg 100 g

(ii) 17kg 750 g × 8

Answer:

(6)(6)	(4)
17 kg	750 g × 8
142 kg	**000 g**

17kg 750 g × 8 = 142 kg

(iii) 25 kg 550 g × 4

Answer:

(2)	
25 kg	550 g × 4
102 kg	**200 g**

25 kg 550 g × 4 = 102 kg 200 g

(iv) 72g 350 mg × 5

Answer:

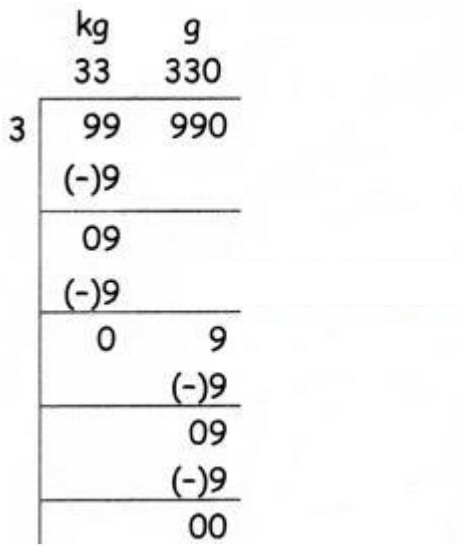
(1)(1)	(2)
72 g	350 mg × 5
361 g	**750 mg**

72g 350 mg × 5 = 361 g 750 mg

Question 5.
Divide the following:

(i) 99 kg 99 0g ÷ 3

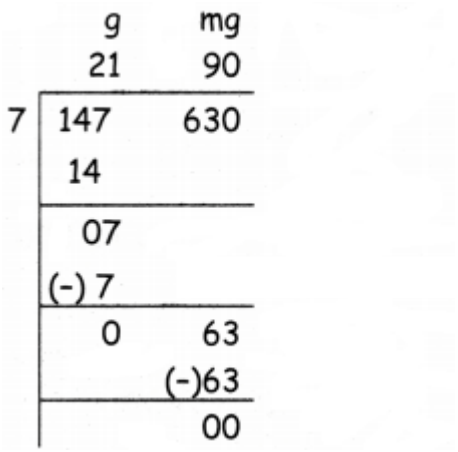
Answer:



99 kg 99 0g ÷ 3 = 33 kg 330 g

(ii) 147 g 630 mg ÷ 7

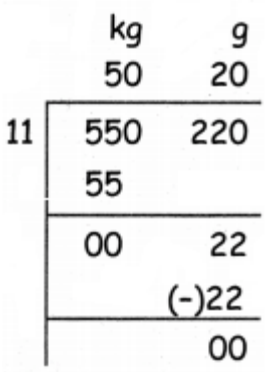
Answer:



147 g 630 mg ÷ 7 = 21 g 90 mg

(iii) 550 kg 220 g ÷ 11

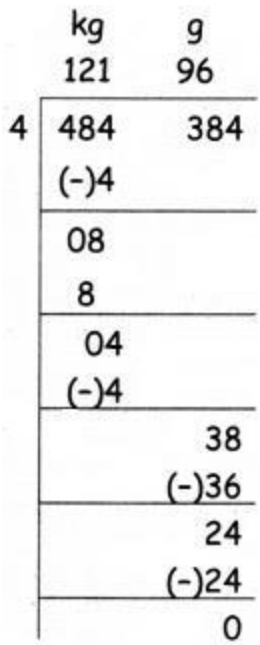
Answer:



550 kg 220 g ÷ 11 = 50 kg 20 g

(iv) 484 g 384 mg ÷ 4

Answer:



484 g 384 mg ÷ 4 = 121 g 96 g

Question 6.
What is the total weight of 7 kg 500 g of cashew nut and 3 kg 350 g of pista?

Answer:
cashew nut = 7 kg 500 g
pista = 3 kg 350 g
Total weight = 7 kg 500 g + 3 kg 350 g
= 10 kg 850 g

kg	g	
7	500	
3	350	(+)
10	**850**	

Question 7.
Vimal had a sack of cotton seeds weighing 50 kg 350 g. He used 7 kg 300 g cotton seeds to feed his cow. How much cotton seed will be remaining after feeding his cow?

Answer:

	kg	g
	(4) (10)	
Total	50	350
Used =	(-) 7	300
Remaining =	**43**	**050**

Remaining cotton seeds = 43 kg 50 g

Question 8.
A glass bottle can contain 25 g 125 mg of medicine, how much medicine can 7 such bottles contain?

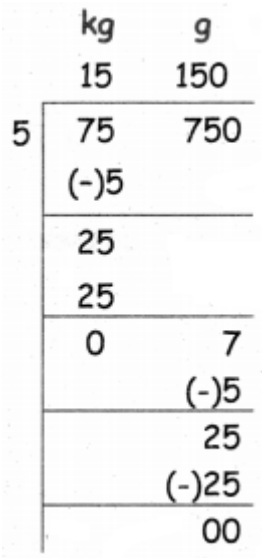
Answer:

One bottle =	25 g	125 mg
	(3)	(1) (3)
7 bottles =	25g	125 mg × 7
	175 g	**875 mg**

7 bottles contain = 175 g 875 mg

Question 9.
75 kg 750 g of groundnut seed is filled in five bags, how much groundnut seed can a bag contain?

Answer:
Total = 75 kg 750 g
One bag = 75 kg 750 g ÷ 5



one bag = 15 kg 150 g

Ex 4.2

Question 1.
Fill in the blanks

(i) _____ is the smallest metric measure of capacity.

Answer:
Milliliter

(ii) _____ is the largest unit of volume and equals _____ litres

Answer:
Kilometer, 1000

(iii) 7 kl 301 = ____l.

Answer:
7030

(iv) 5 l 400 ml = ___ ml.

Answer:
5400

(v) 1300ml = ___ l ___ ml

Answer:
1, 300

Question 2.
Match the following

1. 4500 ml	6 l 500 ml
2. 3250 ml	8 l 200 ml
3. 6500 ml	7 l 50 ml
4. 8200 ml	4 l 500 ml
5. 7050 ml	3 l 250 ml

Answer:

1. 4500 ml	4 l 500 ml
2. 3250 ml	3 l 250 ml
3. 6500 ml	6 l 500 ml
4. 8200 ml	8 l 200 ml
5. 7050 ml	7 l 50 ml

Question 3.
Add and write in litres

(i) 400 l; 50 l; 500 ml

Answer:

l	ml
400	000
50	000
(+)	500
450	**500**

sum = 450 l 500 ml

(ii) 3 kl; 400 l; 3 ml

Answer:

	15485	l
3 kl =	(-) 3000	l
	12485	**l**

sum = 3400 l 3 ml

(iii) 1400 ml; 5680 ml; 280 l

Answer:

	l	ml
1400 ml =	1	400
5680 ml =	5	680
280 l =	280	000
	287	**080**

sum = 287 l 080 ml

Question 4.
Subtract:

(i) 3 kl from 15485 l

Answer:

	15485 l
3 kl =	(-) 3000 l
	12485 l

Difference = 12485 l

(ii) 15 kl from 20 kl

Answer:

20 kl
(-) 5 kl
15

Difference = 15 kl

(iii) 345 ml from 5 l

Answer:

l	ml
(4)	(9) (9) (10)
5	000
(-) 0	345
40	**655**

Difference = 5 l 655 ml

Question 5.
Multiply the following:

(i) 31200 ml × 8

Answer:

(1)	
3 l	200 ml
×	8
25 l	**600 ml**

Product = 25 l 600 ml

(ii) 4 l 450 ml × 4

Answer:

4 l	450 ml
×	4
17 l	**800 ml**

Product = 17 l 800 ml

(iii) 51300 ml × 5

Answer:

(1)	
5 l	300 ml
×	5
26 l	**500 ml**

Product = 26 l 500 ml

(iv) 61700 ml × 6

Answer:

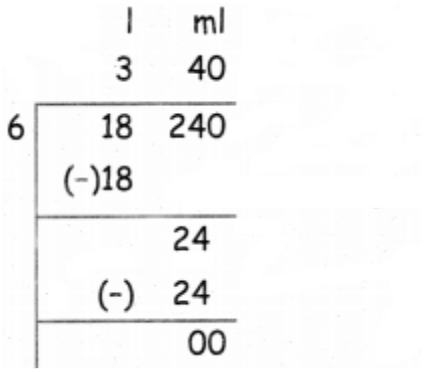
(4)	
6 l	700 ml
×	6
40 l	**200 ml**

Product = 40 l 200 ml

Question 6.
Divide the following:

(i) 18 l 240 ml ÷ 6

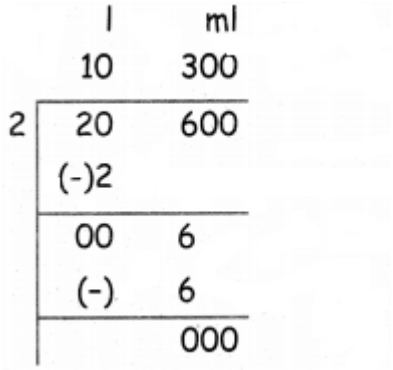
Answer:



18 l 240 ml ÷ 6 = 3 l 40 ml

(ii) 20 l 600 ml ÷ 2

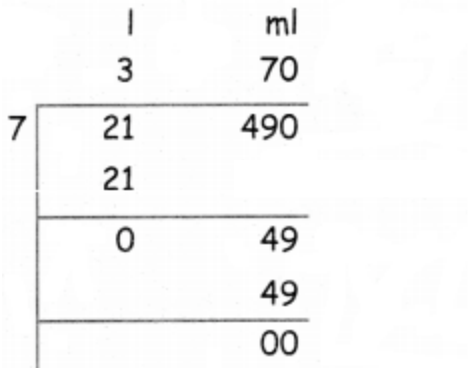
Answer:



20 l 600 ml ÷ 2 = 10 l 300 ml

(iii) 21 l 490 ml ÷ 7

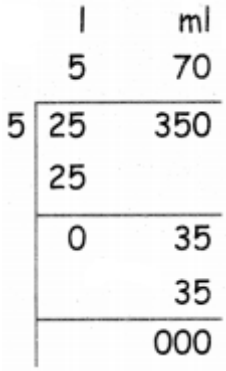
Answer:



21 l 490 ml ÷ 7 = 3 l 70 ml

(iv) 25 l 350 ml ÷ 5

Answer:



25 l 350 ml ÷ 5 = 5 l 70 ml

Question 7.
Kalaiyarasi bought 5 l 500 ml groundnut oil and 750 ml sesame oil. How much oil did she bought in all?

Answer:
Ground nut oil = 5 I 500 ml
Sesame oil = 750 ml
Total = 5 I 500 ml + 750 ml
= 6 l 250 ml

l	ml
(1)	
5	500
(+) 0	750
6	**250**

Question 8.
In a fuel station there was 70 l 500 ml of fuel. How much amount of fuel will be left after selling 35 l 700 ml of fuel?

Answer:

	l	ml
	(6) (9)	(15)
Total =	70	500
Selling =	(-) 35	700
Total =	**34**	**800**

Fuel left = 34 l 800 ml

Question 9.
A pot contains 9 l 500 ml of water, how much amount of water will 7 such pots contain?

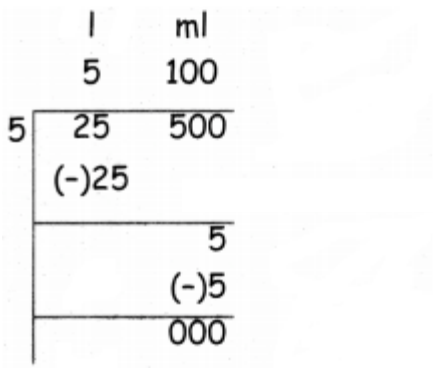
Answer:
One pot contain = 9 l 500 ml

One pot contains	=	9 l	500 ml
		(3)	
Seven pot contains	=	9 l	500 ml
		×	7
	Total =	**66 l**	**500 ml**

Total = 66 l 500 ml

Question 10.
25 l 500 ml of milk is filled in 5 milk cans, how much milk is filled in one can?

Answer:
In 5 cans = 25 l 500 ml
1 can = 25 l 500 ml + 5



= 5l 100 ml

InText Questions

Let us recall (Text Book Page No.24)

Question 1.
10 milligram = _____ centigram

Answer:
10 milligram = 1 centigram

Question 2.
10 centigram = _____ decigram

Answer:
10 centigram = 1 decigram

Question 3.
10 decigram = _____ gram

Answer:
10 decigram = 1 gram

Question 4.
gram = _____ decagram

Answer:
gram = 1 decagram

Question 5.
_____ decagram = 1 hectagram

Answer:
10 decagram = 1 hectagram

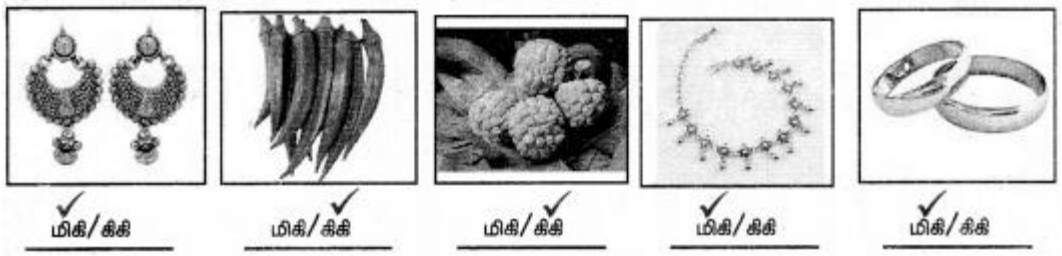
Question 6.
10 hectagram = _____ kilogram

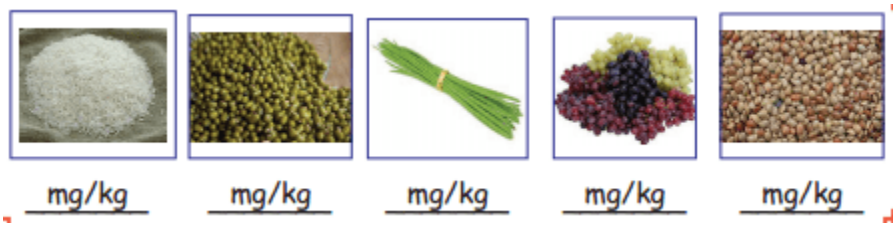
Answer:
10 hectagram = 1 kilogram

Activity (TextBook Page No. 24 & 25)

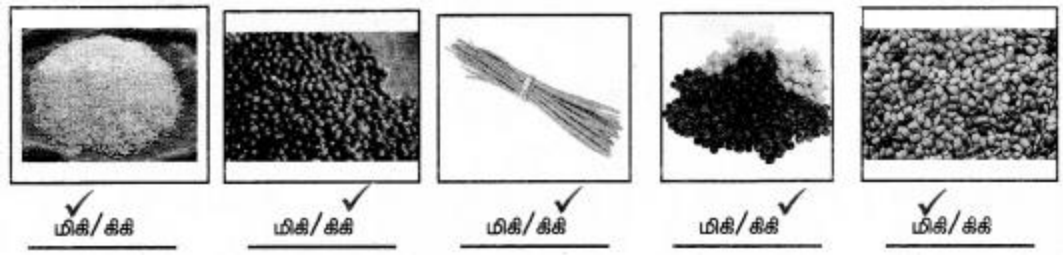
Tick the suitable unit to measure the following objects

Answer:





Answer:



Try These (TextBook Page No. 24 & 25)

Convert into grams

Question 1.
2250 mg
Answer:
2250 mg = 2250 ÷ 1000 g
= 2 g 250 mg

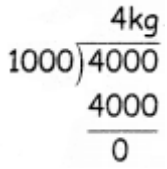
$$\begin{array}{r} 2g \\ 1000\overline{)\,2250} \\ 2000 \\ \hline 250\,mg \end{array}$$

Question 2.
5 kg 400 g
Answer:
5 kg 400 g = (5 × 1000) + 400 g
= 5000 + 400 g
= 5400 g

Try These (TextBook Page No. 26)

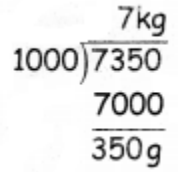
Convert into kilogram
Question 1.
4000 gram

Answer:
400o g = 4000 ÷ 1000 kg
= 4 kg



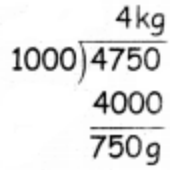
Question 2.
7350 gram

Answer:
7350 g = 7350 ÷ 1000 g
= 7 kg 350 g



Question 3.
4750 gram

Answer:
4750 g = 4750 ÷ 1000 g
= 4 kg 750 g



Try These (TextBook Page No. 27)

Find the sum of the following
Question 1.
5 kg 300g + 19 kg 850 g

Answer:

Kg	g
(1) (1)	
+ 5	300
(+) 19	850
25	**150**

Sum = 25 kg 150 g

Question 2.
15 g 450 mg + 14 g 25 mg + 3 g 700 mg

Answer:

g	mg
(1) (1)	
15	450
14	025
(+) 3	700
33	**175**

Sum = 33 g 175 mg

Question 3.
18 kg 750 g + 16 kg 400g + 3 kg 500g.

Answer:

kg	g
(1) (1)	
18	750
16	400
3	500
38	**650**

Sum = 38 kg 650 g

Try This (TextBook Page No. 28)

Subtract the following

a. 75 kg – 35 kg 4009

Answer:

Kg	g
(6)(14)	(10)
	75
(-) 35	400
39	**600**

Difference = 39 kg 600 g

b. 57 kg 750 g – 23 kg 450 g

Answer:

57	750
(-) 23	450
34	**300**

Difference = 34 kg 300 g

c. 975 kg 400 g – 755 kg 550

Answer:

kg	g
(6)(4)	(13) (10)
975	400
(-) 755	550
219	**850**

Difference = 219 kg 850 g

Try These (TextBook Page No. 29)

Multiply the following:

a. 7 kg 350 g × 7

Answer:

kg	g
7	350
×	7
51	**450**

7 kg 350 g × 7 = 51 kg 450 g

b. 9 kg 750 g × 3

Answer:

kg	g
9	750
×	3
29	**250**

9 kg 750 g × 3 = 29 kg 250 g

c. 45 kg 800 g × 6

Answer:

kg	g
(3)(4)	
45	800
×	6
274	**800**

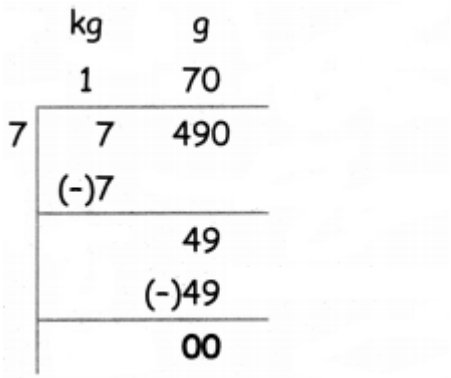
45 kg 800 g × 6 = 274 kg 800 g

Try This (TextBook Page No. 29)

Divide the following:

a. 7 kg 490 g ÷ 7

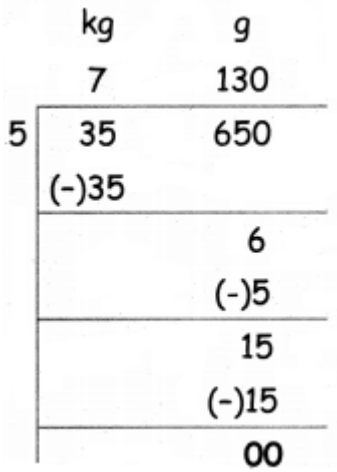
Answer:



7 kg 490 g ÷ 7 = 1 kg 70 g

b. 35 kg 650 g ÷ 5

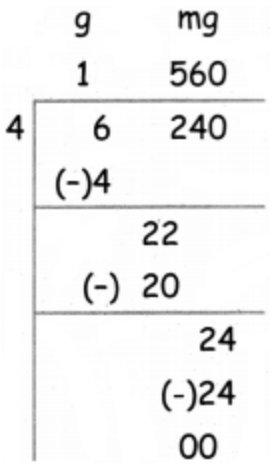
Answer:



35 kg 650 g ÷ 5 = 7 kg 130 g

c. 6 g 240 mg ÷ 4

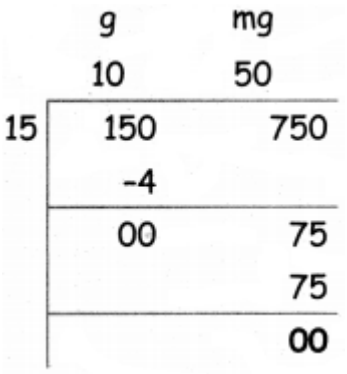
Answer:



6 g 240 mg ÷ 4 = 1 g 560 mg

d. 150 g 750 mg ÷ 15

Answer:



150 g 750 mg ÷ 15 = 10 g 50 mg

Try This (TextBook Page No. 34)

Convert into milliliter:

a. 5 l 500 ml

Answer:
5 l 500 ml = (5 × 1000) + 500 ml
= 5000 + 500
= 5500 ml

b. 9 l 200 ml

Answer:
9 l 200 ml = (9 × 1000) + 200 ml
= 9000 + 200
= 9200 ml

c. 2 l 300 ml

Answer:
2 l 300 ml = (2 × 1000) + 300 ml
= 2000 + 300
= 2300 ml

Activity (TextBook Page No. 34)

Litre	Millilitre
1. l	1000 ml
2. l	2000 ml
3. l	
4. l	
5. l 300 ml	5300 ml
6. l	
7. l	
8. l 400 ml	
9. l	
10. 1 200 ml	

Answer:

Litre	Millilitre
1. l	1000 ml
2. l	2000 ml
3. l	3000 ml
4. l	4000 ml
5. l 300 ml	5300 ml
6. l	6000 ml
7. l	7000 ml

8. l 400 ml	8400 ml
9. l	9000 ml
10. 1 200 ml	10200 ml

Try These (TextBook Page No. 35)

Question 1.
4 l 300 ml + 6 l 700 ml

Answer:

	l	ml
	4	300
	6	700
	11	**000**

Sum = 11 l

Question 2.
7 l 250 ml + 2 l 300 ml

Answer:

	l	ml
	7	250
+	2	300
	9	**550**

Sum = 9 l 550 ml

Question 3.
5 l 500 ml – 4 l 450 ml

Answer:

l	ml
	(4) (10)
5	500
(-) 4	450
1	**050**

Difference = 1 l 50 ml

Question 4.
46 l 300 ml – 12 l 550 ml

Answer:

l	ml
(5)	(12) (10)
46	300
(-)12	550
33	**750**

Difference = 33 l 750 ml

Try These (TextBook Page No. 37)

Question 1.
2 l 250 ml × 2

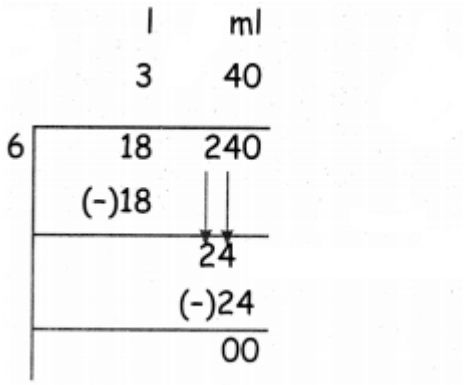
Answer:

2 l	250 ml × 2
4 l	**500 ml**

2 l 250 ml × 2 = 4 l 500 ml

Question 2.
18 l 240 ml ÷ 6

Answer:



18 l 240 ml ÷ 6 = 3 l 40 ml