

# Chapter 11: Measurement

## Auditory

The length of Babita's pencil = 15 centimetres

Notebook is 10 centimetres longer than the pencil.

Length of Babita's notebook = 15 + 10 = 25 centimetres

Babita's pencil is 15 cm and her notebook is 25 cm.

$$\begin{array}{r} 15 \\ + 10 \\ \hline 25 \end{array}$$

## Word Problems

9. a. Length of rope bought by Maria = 14 m 25 cm

Length of rope bought by Nancy = 17 m 15 cm

Total length of ropes bought by Nancy = 14 m 25 cm + 17 m 15 cm = 31 m 40 cm

The total length of ropes bought by Nancy is 31m 40 cm.

m	cm
14	25
17	15
31	40

b. Height of Rohit's jump = 197 cm = 1 m 97 cm

Height of Indu's jump = 1 m 25 cm

Difference in their jumps = 1 m 97 cm - 1 m 25 cm = 72 cm

Rohit jumped 72 cm higher than Indu.

m	cm
1	97
1	25
	72

14. a. Weight of vegetables Jagdish bought = 7 kg 200 g

Weight of rice Jagdish bought = 9 kg 395 g

Total weight Jagdish carried from the market =

7 kg 200 g + 9 kg 395 g = 16 kg and 595 g

The total weight that Jagdish carried from the market is 16 kg 595 g.

kg	g
7	200
9	395
16	595

b. Weight of Rohit = 54 kg 635 g

Weight of Ash = 45 kg 487 g

Difference in weight = 54 kg 635 g - 45 kg 487 g = 9 kg 148 g

Ash weighs 9 kg 148 g less than Rohit.

kg	g
54	635
45	487
9	148

19. a. Capacity of the water jar = 10 L 500 mL

Water already in the jar = 7 L 350 mL

Water that can still be poured into the jar =

10 L 500 mL - 7 L 350 mL = 3 L 150 mL

The water jar can hold 3 L 150 mL more water.

L	mL
10	500
7	350
3	150

- Sara bought a total of 1 L of juice.

L	mL		
1	5	0	0
+	5	0	0
<hr/>			
1	0	0	0

- There is 165 L 356 mL of water left in the tank.

	L		mL		
	9	9	9	9	
4	<del>10</del>	<del>10</del>	<del>10</del>	<del>10</del>	10
5	0	0	0	0	0
— 3	3	5	6	4	4
	<b>1</b>	<b>6</b>	<b>4</b>	<b>3</b>	<b>5</b>
				<b>6</b>	

- There is 525 mL of milk left in the jar.

	mL		
	9	9	
0	<del>10</del>	<del>10</del>	10
<del>1</del>	<del>0</del>	<del>0</del>	<del>0</del>
—	4	7	5
	<b>5</b>	<b>2</b>	<b>5</b>

The total length of the string is 28 m 43 cm.

	m		cm	
	1	2	1	6
	1	2	6	8
+	1	5	7	5
	<b>2</b>	<b>8</b>	<b>4</b>	<b>3</b>

- Joseph has grown 90 cm.

	cm	
	<sup>0</sup> <del>1</del>	<sup>17</sup> <del>7</del> 2
—		8 2
		<u>9 0</u>

3. Height of the mountain = 4879 m  
 Height Sohan has climbed = 2259 m  
 Height left to climb = 4879 m – 2259 m = 2620 m  
 Sohan must climb 2620 m more to reach the top.

m				
	4	8	7	9
–	2	2	5	9
	2	6	2	0

4. Weight of wheat = 14 kg 750 g  
 Weight of rice = 11 kg 525 g  
 Total weight = 14 kg 750 g + 11 kg 525 g = 25 kg 1275 g = 26 kg 275 g  
 Uma must carry home 26 kg 275 g in total.

kg		g		
		<sup>1</sup>		
	1	1	5	2
+	1	4	7	5
	2	6	2	7

5. Weight of gas cylinder when full = 29 kg 500 g  
 Weight of gas cylinder when empty = 14 kg 200 g  
 Weight of gas = 29 kg 500 g – 14 kg 200 g = 15 kg 300 g  
 The weight of the gas in the cylinder is 15 kg 300 g.

kg		g			
	2	9	5	0	0
–	1	4	2	0	0
	1	5	3	0	0

6. Capacity of first jug = 10 L 634 mL  
 Capacity of second jug = 17 L 735 mL  
 Total capacity = 10 L 634 mL + 17 L 735 mL =  
 27 L 1369 mL = 28 L 369 mL  
 Harsh can store a total of 28 L 369 mL of water.

L		mL			
		<sup>1</sup>			
	1	0	6	3	4
+	1	7	7	3	5
	2	8	3	6	9

7. Capacity of the bucket = 10 L  
 Water already in the bucket = 7 L 870 mL  
 Water it can still hold = 10 L – 7 L 870 mL = 2 L 130 mL  
 The bucket can hold 2 L 130 mL more water.

L		mL			
		<sup>9</sup>	<sup>9</sup>		
	<sup>0</sup>	<del>10</del>	<del>10</del>	<sup>10</sup>	
	<del>7</del>	<del>8</del>	<del>7</del>	<del>0</del>	0
–		7	8	7	0
	2	1	3	0	