

St. Andrews Scots Sr. Sec. School

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Session: 2025-2026

Class: IV

Subject: Mathematics

Topic: Unit -9 (Measurement)

Warm up (pg-133)

Ex-1 Q.1(Book)

Q.2 a,d,f(Notebook)

Ex-2 Q.2,3,4,6,8 (Notebook)

Ex-3 Q.1 a,c; Q.2 a,c; Q.3 a,c ; Q.4 a,c(Notebook)

Ex-4 Q.1 a,b; Q.2 a,b ; Q.3 a,c (Notebook)

Ex-5 Q.1 b,c,e,g; Q.2 a,d,e,h; Q.4; Q.6; Q.7; Q.8(Notebook)

Worksheet

Lesson-9 : Measurement

Warm Up

1 m 80 cm	<	2 km
8000 g	=	8 kg
5 ℓ	>	400 mℓ
2 kg 200 g	<	3 kg
2 m	=	200 cm
1100 mℓ	>	10 ℓ
4 kg	=	4000 g
9 m 90 cm	>	9 m
300 mℓ	<	4 ℓ
800 cm	=	8 m

>	=	<
P	Q	I
E	L	T
O	R	T
M	N	V
Z	E	W
M	C	O
S	A	E
T	X	P
Z	O	H
P	S	W

Message : I LOVE MATHS

Exercise-1

- (a) km (b) cm (c) m (d) cm (e) cm
- (a) $5 \text{ m } 25 \text{ cm} = 5 \times 100 \text{ cm} + 25 \text{ cm} = 500 \text{ cm} + 25 \text{ cm} = 525 \text{ cm}$

(b) $62 \text{ cm } 4 \text{ mm} = 62 \times 10 \text{ mm} + 4 \text{ mm} = 620 \text{ mm} + 4 \text{ mm} = 624 \text{ mm}$

(c) $13 \text{ dm } 5 \text{ cm} = 13 \times 10 \text{ cm} + 5 \text{ cm} = 130 \text{ cm} + 5 \text{ cm} = 135 \text{ cm}$

(d) $9 \text{ m } 82 \text{ mm} = 9 \times 1000 \text{ mm} + 82 \text{ mm} = 9000 \text{ mm} + 82 \text{ mm} = 9082 \text{ mm}$

(e) $4 \text{ m } 3 \text{ dm } 2 \text{ cm} = 4 \times 100 \text{ cm} + 3 \times 10 \text{ cm} + 2 \text{ cm}$
 $= 400 \text{ cm} + 30 \text{ cm} + 2 \text{ cm} = 432 \text{ cm}$

(f) $6 \text{ km } 42 \text{ m } 12 \text{ cm} = 6 \times 100000 \text{ cm} + 42 \times 100 \text{ cm} + 12 \text{ cm}$
 $= 600000 \text{ cm} + 4200 \text{ cm} + 12 \text{ cm} = 604212 \text{ cm}$

Exercise-2

- $50 \text{ mm} = (50 \div 10) \text{ cm} = 5 \text{ cm}$
- $142 \text{ mm} = (142 \div 10) \text{ cm} = 14 \text{ cm } 2 \text{ mm}$
- $625 \text{ cm} = (625 \div 100) \text{ m} = 6 \text{ m } 25 \text{ cm}$
- $5285 \text{ cm} = (5285 \div 100) \text{ m} = 52 \text{ m } 85 \text{ cm}$
- $921 \text{ dm} = (921 \div 10) \text{ m} = 92 \text{ m } 1 \text{ dm}$
- $827 \text{ dm} = (827 \div 10) \text{ m} = 82 \text{ m } 7 \text{ dm}$

- $8000 \text{ m} = (8000 \div 1000) \text{ km} = 8 \text{ km}$
- $9257 \text{ m} = (9257 \div 1000) \text{ km} = 9 \text{ km } 257 \text{ m}$
- $6578 \text{ m} = (6578 \div 1000) \text{ km} = 6 \text{ km } 578 \text{ m}$

Exercise-3

1. (a) $12 \text{ kg} = 12 \times 1000 \text{ g} = 12000 \text{ g}$
(b) $7 \text{ kg } 256 \text{ g} = 7 \times 1000 \text{ g} + 256 \text{ g} = 7000 \text{ g} + 256 \text{ g} = 7256 \text{ g}$
(c) $15 \text{ kg } 15 \text{ g} = 15 \times 1000 \text{ g} + 15 \text{ g} = 15000 \text{ g} + 15 \text{ g} = 15015 \text{ g}$
2. (a) $19 \text{ g} = 19 \times 1000 \text{ mg} = 19000 \text{ mg}$
(b) $25 \text{ g } 25 \text{ mg} = 25 \times 1000 \text{ mg} + 25 \text{ mg} = 25000 \text{ mg} + 25 \text{ mg} = 25025 \text{ mg}$
(c) $82 \text{ g } 82 \text{ mg} = 82 \times 1000 \text{ mg} + 82 \text{ mg} = 82000 \text{ mg} + 82 \text{ mg} = 82082 \text{ mg}$
3. (a) $2387 \text{ g} = (2387 \div 1000) \text{ kg} = 2 \text{ kg } 387 \text{ g}$
(b) $6700 \text{ g} = (6700 \div 1000) \text{ kg} = 6 \text{ kg } 700 \text{ g}$
(c) $8080 \text{ g} = (8080 \div 1000) \text{ kg} = 8 \text{ kg } 80 \text{ g}$
4. (a) $4200 \text{ mg} = (4200 \div 1000) \text{ g} = 4 \text{ g } 200 \text{ mg}$
(b) $3255 \text{ mg} = (3255 \div 1000) \text{ g} = 3 \text{ g } 255 \text{ mg}$
(c) $7288 \text{ mg} = (7288 \div 1000) \text{ g} = 7 \text{ g } 288 \text{ mg}$

Exercise-4

1. (a) $15 \text{ k}\ell = 15 \times 1000 \ell = 15000 \ell$
(b) $8 \text{ k}\ell \text{ } 8 \ell = 8 \times 1000 \ell + 8 \ell = 8000 \ell + 8 \ell = 8008 \ell$
(c) $12 \text{ k}\ell \text{ } 265 \ell = 12 \times 1000 \ell + 265 \ell = 12000 \ell + 265 \ell = 12265 \ell$
2. (a) $28 \ell = 28 \times 1000 \text{ m}\ell = 28000 \text{ m}\ell$
(b) $7 \ell \text{ } 270 \text{ m}\ell = 7 \times 1000 \text{ m}\ell + 270 \text{ m}\ell = 7000 \text{ m}\ell + 270 \text{ m}\ell = 7270 \text{ m}\ell$
(c) $10 \ell \text{ } 450 \text{ m}\ell = 10 \times 1000 \text{ m}\ell + 450 \text{ m}\ell = 10000 \text{ m}\ell + 450 \text{ m}\ell = 10450 \text{ m}\ell$
3. (a) $62000 \ell = (62000 \div 1000) \text{ k}\ell = 62 \text{ k}\ell$
(b) $7280 \ell = (7280 \div 1000) \text{ k}\ell = 7 \text{ k}\ell \text{ } 280 \ell$
(c) $15255 \ell = (15255 \div 1000) \text{ k}\ell = 15 \text{ k}\ell \text{ } 255 \ell$

Exercise-5

1. (a) $25 \text{ cm} + 65 \text{ cm} = 90 \text{ cm}$

Write 90 under the cm column.

$$15 \text{ m} + 8 \text{ m} = 23 \text{ m}$$

Write 23 under the m column.

$$\begin{array}{r} \text{m} \quad \text{cm} \\ 15 \quad 25 \\ + 8 \quad 65 \\ \hline 23 \quad 90 \end{array}$$

$$15 \text{ m } 25 \text{ cm} + 8 \text{ m } 65 \text{ cm}$$

$$= 23 \text{ m } 90 \text{ cm}$$

(c) $175 \text{ m} + 675 \text{ m} = 850 \text{ m}$

Write 850 under the m column.

$$42 \text{ km} + 69 \text{ km} = 111 \text{ km}$$

Write 111 under the km column.

$$\begin{array}{r} \text{km} \quad \text{m} \\ 42 \quad 175 \\ + 69 \quad 675 \\ \hline 111 \quad 850 \end{array}$$

$$42 \text{ km } 175 \text{ m} + 69 \text{ km } 675 \text{ m}$$

$$= 111 \text{ km } 850 \text{ m}$$

(e) $672 \text{ g} + 372 \text{ g} = 1044 \text{ g}$

$$= 1000 \text{ g} + 44 \text{ g} = 1 \text{ kg} + 44 \text{ g}$$

Write 44 under the g column

and carry 1 to the kg column.

$$1 \text{ kg} + 54 \text{ kg} + 67 \text{ kg} = 122 \text{ kg}$$

Write 122 under the kg column.

$$\begin{array}{r} \text{kg} \quad \text{g} \\ \textcircled{1} \\ 54 \quad 672 \\ + 67 \quad 372 \\ \hline 122 \quad 044 \end{array}$$

$$54 \text{ kg } 672 \text{ g} + 67 \text{ kg } 372 \text{ g}$$

$$= 122 \text{ kg } 44 \text{ g}$$

(b) $250 \text{ g} + 127 \text{ g} = 377 \text{ g}$

Write 377 under the g column.

$$75 \text{ kg} + 62 \text{ kg} = 137 \text{ kg}$$

Write 137 under the kg column.

$$\begin{array}{r} \text{kg} \quad \text{g} \\ 75 \quad 250 \\ + 62 \quad 127 \\ \hline 137 \quad 377 \end{array}$$

$$75 \text{ kg } 250 \text{ g} + 62 \text{ kg } 127 \text{ g}$$

$$= 137 \text{ kg } 377 \text{ g}$$

(d) $455 \text{ mℓ} + 285 \text{ mℓ} = 740 \text{ mℓ}$

Write 740 under the mℓ column.

$$8 \text{ ℓ} + 16 \text{ ℓ} = 24 \text{ ℓ}$$

Write 24 under the ℓ column.

$$\begin{array}{r} \text{ℓ} \quad \text{mℓ} \\ 8 \quad 455 \\ + 16 \quad 285 \\ \hline 24 \quad 740 \end{array}$$

$$8 \text{ ℓ } 455 \text{ mℓ} + 16 \text{ ℓ } 285 \text{ mℓ}$$

$$= 24 \text{ ℓ } 740 \text{ mℓ}$$

(f) $333 \text{ mℓ} + 666 \text{ mℓ} = 999 \text{ mℓ}$

Write 999 under the mℓ column.

$$33 \text{ ℓ} + 66 \text{ ℓ} = 99 \text{ ℓ}$$

Write 99 under the ℓ column.

$$\begin{array}{r} \text{ℓ} \quad \text{mℓ} \\ 33 \quad 333 \\ + 66 \quad 666 \\ \hline 99 \quad 999 \end{array}$$

$$33 \text{ ℓ } 333 \text{ mℓ} + 66 \text{ ℓ } 666 \text{ mℓ}$$

$$= 99 \text{ ℓ } 999 \text{ mℓ}$$

(g) $256 \text{ m} + 128 \text{ m} = 384 \text{ m}$

Write 384 under the m column.

$$128 \text{ km} + 64 \text{ km} = 192 \text{ km}$$

Write 192 under the km column.

$$\begin{array}{r} \text{km} \quad \text{m} \\ 128 \quad 256 \\ + 64 \quad 128 \\ \hline 192 \quad 384 \end{array}$$

$$128 \text{ km } 256 \text{ m} + 64 \text{ km } 128 \text{ m}$$

$$= 192 \text{ km } 384 \text{ m}$$

(h) $67 \text{ cm} + 27 \text{ cm} = 94 \text{ cm}$

Write 94 under the cm column.

$$85 \text{ m} + 37 \text{ m} = 122 \text{ m}$$

Write 122 under the m column.

$$\begin{array}{r} \text{m} \quad \text{cm} \\ 85 \quad 67 \\ + 37 \quad 27 \\ \hline 122 \quad 94 \end{array}$$

$$85 \text{ m } 67 \text{ cm} + 37 \text{ m } 27 \text{ cm}$$

$$= 122 \text{ m } 94 \text{ cm}$$

2. (a) Since $100\text{ g} < 400\text{ g}$, we borrow 1 kg from 32 kg leaving behind 31 kg.

$$1\text{ kg} + 100\text{ g} = 1000\text{ g} + 100\text{ g} = 1100\text{ g}$$

$$\text{Now, } 1100\text{ g} - 400\text{ g} = 700\text{ g}$$

Write 700 under the g column.

$$31\text{ kg} - 17\text{ kg} = 14\text{ kg}$$

Write 14 under the kg column.

$$32\text{ kg } 100\text{ g} - 17\text{ kg } 400\text{ g} = 14\text{ kg } 700\text{ g}$$

kg	g
(31)	(1100)
32	100
- 17	400
14	700

- (b) Since $250\text{ ml} < 650\text{ ml}$, we borrow 1 ℓ from 10 ℓ leaving behind 9 ℓ.

$$1\text{ ℓ} + 250\text{ ml} = 1000\text{ ml} + 250\text{ ml} = 1250\text{ ml}$$

$$\text{Now, } 1250\text{ ml} - 650\text{ ml} = 600\text{ ml}$$

Write 600 under the ml column.

$$9\text{ ℓ} - 5\text{ ℓ} = 4\text{ ℓ}$$

Write 4 under the ℓ column.

$$10\text{ ℓ } 250\text{ ml} - 5\text{ ℓ } 650\text{ ml} = 4\text{ ℓ } 600\text{ ml}$$

ℓ	ml
(9)	(1250)
10	250
- 5	650
4	600

- (c) Since $625\text{ m} < 800\text{ m}$, we borrow 1 km from 55 km leaving behind 54 km.

$$1\text{ km} + 625\text{ m} = 1000\text{ m} + 625\text{ m} = 1625\text{ m}$$

$$\text{Now, } 1625\text{ m} - 800\text{ m} = 825\text{ m}$$

Write 825 under the m column.

$$54\text{ km} - 34\text{ km} = 20\text{ km}$$

Write 20 under the km column.

$$55\text{ km } 625\text{ m} - 34\text{ km } 800\text{ m} = 20\text{ km } 825\text{ m}$$

km	m
(54)	(1625)
55	625
- 34	800
20	825

- (d) $40\text{ cm} - 25\text{ cm} = 15\text{ cm}$

Write 15 under the cm column.

$$27\text{ m} - 19\text{ m} = 8\text{ m}$$

Write 8 under the m column.

$$27\text{ m } 40\text{ cm} - 19\text{ m } 25\text{ cm} = 8\text{ m } 15\text{ cm}$$

m	cm
27	40
- 19	25
8	15

- (e) Since $350\text{ g} < 450\text{ g}$, we borrow 1 kg from 81 kg leaving behind 80 kg.

$$1\text{ kg} + 350\text{ g} = 1000\text{ g} + 350\text{ g} = 1350\text{ g}$$

$$\text{Now, } 1350\text{ g} - 450\text{ g} = 900\text{ g}$$

Write 900 under the g column.

$$80\text{ kg} - 73\text{ kg} = 7\text{ kg}$$

Write 7 under the kg column.

$$81\text{ kg } 350\text{ g} - 73\text{ kg } 450\text{ g} = 7\text{ kg } 900\text{ g}$$

kg	g
(80)	(1350)
81	350
- 73	450
7	900

- (h) Since $700 \text{ m} < 825 \text{ m}$, we borrow 1 km from 72 km leaving behind 71 km.

$$1 \text{ km} + 700 \text{ m} = 1000 \text{ m} + 700 \text{ m} = 1700 \text{ m}$$

$$\text{Now, } 1700 \text{ m} - 825 \text{ m} = 875 \text{ m}$$

Write 875 under the m column.

$$71 \text{ km} - 66 \text{ km} = 5 \text{ km}$$

Write 5 under the km column.

$$72 \text{ km } 700 \text{ m} - 66 \text{ km } 825 \text{ m} = 5 \text{ km } 875 \text{ m}$$

km	m
(71)	(1700)
72	700
- 66	825
5	875

3. Quantity of juice left in the pack = $2 \ell \ 200 \text{ ml} - 750 \text{ ml}$

ℓ	ml
(2) (200)	(0)
2	200
- 7	50
1	450

$$= 2200 \text{ ml} - 750 \text{ ml}$$

$$= 1450 \text{ ml} = 1 \ell \ 450 \text{ ml}$$

4. Total weight of vegetables bought

$$= 2 \text{ kg } 400 \text{ g} + 1 \text{ kg } 550 \text{ g}$$

$$= 3 \text{ kg } 950 \text{ g}$$

kg	g
2	400
+ 1	550
3	950

5. Weight of apples left with the shopkeeper

$$= 9 \text{ kg } 500 \text{ g} - 4 \text{ kg } 750 \text{ g}$$

$$= 4 \text{ kg } 750 \text{ g}$$

kg	g
(9)	(500)
9	500
- 4	750
4	750

6. Total distance travelled by Jeet = $5 \text{ km } 250 \text{ m} + 3 \text{ km } 450 \text{ m} + 600 \text{ m}$

km	m
(5)	250
3	450
+ 0	600
9	300

$$= 9 \text{ km } 300 \text{ m}$$

7. Length of the ribbon left = $32 \text{ m} - 18 \text{ m } 75 \text{ cm}$

$$= 13 \text{ m } 25 \text{ cm}$$

m	cm
(31)	(100)
32	00
- 18	75
13	25

8. Since, $3 \text{ kg } 525 \text{ g} > 2 \text{ kg } 750 \text{ g}$, therefore watermelon is heavier.

$$\text{Difference in weights} = 3 \text{ kg } 525 \text{ g} - 2 \text{ kg } 750 \text{ g}$$

$$= 775 \text{ g}$$

So, the weight of watermelon is 775 g more than that of papaya.

kg	g
(3)	(525)
3	525
- 2	750
0	775