



NAME: _____
CLASS: ___5___ DIV : _____
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DATE: _____
SUBJECT: MATH
LESSON- L-1 MEASUREMENT

PRE ACTIVITY – Lets get started page no. 80

Exercise 1A

1. Solve the following.

Solution:

- a. 165 cm to mm
1 cm = 10 mm
165 cm = 165 × 10 mm = 1650 mm
- b. 1.2 km to m
1 km = 1000 m
1.2 km = 1.2 × 1000 m = 1200 m
- c. 14 km to m
1 km = 1000 m
14 km = 14 × 1000 m = 14000 m

d. $\frac{1}{4}$ of 20 m to cm

$$\frac{1}{4} \times 20 = 5 \text{ m}$$

$$1 \text{ m} = 100 \text{ cm}$$

$$5 \text{ m} = 5 \times 100 \text{ cm} = 500 \text{ cm}$$

e. 15 cm to mm

$$1 \text{ cm} = 10 \text{ mm}$$

$$15 \text{ cm} = 15 \times 10 \text{ mm} = 150 \text{ mm}$$

f. 8 km 15 m to m

$$1 \text{ km} = 1000 \text{ m}$$

$$8 \text{ km} + 15 \text{ m} = 8 \times 1000 \text{ m} + 15 \text{ m} = 8000 \text{ m} + 15 \text{ m} = 8015 \text{ m}$$

2. Express the following in hm, dam, dm, cm and mm.

- a. 387.194 m b. 408.29 m

Solution:

- a. 387.194 m
- $$1 \text{ m} = \frac{1}{100} \text{ hm}$$
- $$387.194 \text{ m} = 387.194 \times \frac{1}{100} = 3.87194 \text{ hm}$$
- $$387.194 \text{ m} = \frac{387.194 \times 1}{10} \text{ dam}$$
- $$= 38.7194 \text{ dam}$$
- $$1 \text{ m} = 10 \text{ dm}$$
- $$387.194 \text{ m} = 387.194 \times 10 \text{ dm} = 3871.94 \text{ dm}$$
- $$1 \text{ m} = 100 \text{ cm}$$
- $$387.194 \text{ m} = 387.194 \times 100 \text{ cm} = 38719.4 \text{ cm}$$
- $$1 \text{ m} = 1000 \text{ mm}$$
- $$387.194 \text{ m} = 387.194 \times 1000 \text{ mm} = 387194 \text{ mm}$$

- b. 408.29 m
- $$1 \text{ m} = \frac{1}{100} \text{ hm}$$
- $$408.29 \text{ m} = 408.29 \times \frac{1}{100} = 4.0829 \text{ hm}$$
- $$408.29 \text{ m} = \frac{408.29 \times 1}{10} \text{ dam} = 40.829 \text{ dam}$$
- $$1 \text{ m} = 10 \text{ dm}$$
- $$408.29 \text{ m} = 408.29 \times 10 \text{ dm} = 4082.9 \text{ dm}$$
- $$1 \text{ m} = 100 \text{ cm}$$
- $$408.29 \text{ m} = 408.29 \times 100 \text{ cm} = 40,829 \text{ cm}$$
- $$1 \text{ m} = 1000 \text{ mm}$$
- $$408.29 \text{ m} = 408.29 \times 1000 \text{ mm} = 4,08,290 \text{ mm}$$

Exercise 1B

1. Convert the following.

Solution:

- a. 27 dag to mg

$$1 \text{ dag} = 10000 \text{ mg}$$

$$27 \text{ dag} = 27 \times 10000 \text{ mg} = 270000 \text{ mg}$$

- b. 924 mg to kg

$$1 \text{ mg} = \frac{1}{1000000} \text{ kg}$$

$$924 \text{ mg} = 924 \times \frac{1}{1000000} \text{ kg} = 0.000924 \text{ kg}$$

- c. 394 dg to dag

$$1 \text{ dg} = \frac{1}{100} \text{ dag}$$

$$394 \text{ dg} = \frac{394}{100} \text{ dag} = 3.94 \text{ dag}$$

- d. 1.018 kg to g

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

$$1.018 \text{ kg} = 1.018 \times 1000 \text{ g} = 1018 \text{ g}$$

2. Find $\frac{1}{4}$ of 20 g in mg.

Solution:

$$\frac{1}{4} \text{ of } 20 \text{ g} = \frac{1}{4} \times 20 \text{ g} = 5 \text{ g}$$

$$1 \text{ g} = 1000 \text{ mg}$$

$$5 \text{ g} = 5 \times 1000 \text{ mg} = 5000 \text{ mg}$$

3. Convert 7.25 kg to g.

Solution:

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

$$7.25 \text{ kg} = 7.25 \times 1000 \text{ g} = 7250 \text{ g}$$

4. Express 251.684 kg in hg, dag, g and cg.

Solution:

$$1 \text{ kg} = 10 \text{ hg}$$

$$251.684 \text{ kg} = 251.684 \times 10 \text{ hg} = 2516.84 \text{ hg}$$

$$1 \text{ kg} = 100 \text{ dag}$$

$$251.684 \text{ kg} = 251.684 \times 100 \text{ dag} = 25168.4 \text{ dag}$$

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

$$251.684 \text{ kg} = 251.684 \times 1000 \text{ g} = 251684 \text{ g}$$

$$1 \text{ kg} = 100000 \text{ cg}$$

$$251.684 \text{ kg} = 251.684 \times 100000 \text{ cg} = 25168400 \text{ cg}$$

Exercise 1C

1. Convert the following.

Solution:

- a. 4000 mL to daL

$$1 \text{ mL} = \frac{1}{10000} \text{ daL}$$

$$4000 \text{ mL} = \frac{4000}{10000} = 0.4 \text{ daL}$$

- b. 14.55 L to mL

$$1 \text{ L} = 1000 \text{ mL}$$

$$14.55 \text{ L} = 14.55 \times 1000 \text{ mL} = 14550 \text{ mL}$$

- c. 1.5 hL to L

$$1 \text{ hL} = 100 \text{ L}$$

$$1.5 \text{ hL} = 1.5 \times 100 \text{ L} = 150 \text{ L}$$

- d. 6.5 dL to mL

$$1 \text{ dL} = 100 \text{ mL}$$

$$6.5 \text{ dL} = 6.5 \times 100 \text{ mL} = 650 \text{ mL}$$

2. Find $\frac{1}{5}$ of 2000 mL in L.

Solution:

$$\frac{1}{5} \text{ of } 2000 \text{ mL} = \frac{1}{5} \times 2000 \text{ mL} = 400 \text{ mL}$$

$$1 \text{ mL} = \frac{1}{1000} \text{ L}$$

$$400 \text{ mL} = \frac{400}{1000} \text{ L} = 0.4 \text{ L}$$

3. Fill in the blanks.

Solution:

a. $2,95,600 \text{ cL} = 2 \text{ kL } 95,600 \text{ cL}$

b. $4.25 \text{ kL} = 4250 \text{ L}$

c. $1978 \text{ L} = 1 \text{ kL } 9 \text{ hL } 7 \text{ daL } 8 \text{ L}$

4. Express 39.647 kℓ in hℓ, daℓ and ℓ.

1 kℓ = 10,000 dℓ

Solution:

1 kℓ = 10 hℓ

39.647 kℓ = 39.647 × 10 hℓ = 396.47 hℓ

1 kℓ = 100 daℓ

39.647 kℓ = 39.647 × 100 daℓ = 3964.70 daℓ

1 kℓ = 1000 ℓ

39.647 kℓ = 39.647 × 1000 ℓ = 39,647 ℓ

Exercise 1D

1. Add the following.

Solution:

a. 34 m + 50 m 2 cm

	m	cm
	34	00
+	50	02
	84	02

34 m + 50 m 2 cm = 84 m 2 cm

b. 5 kg 340 g + 3 kg 950 g

	kg	g
	5	340
+	3	950
	9	290

5 kg 340 g + 3 kg 950 g = 9 kg 290 g

e. 19 cm 6 mm + 4 cm

	cm	mm
	19	06
+	4	00
	23	06

19 cm 6 mm + 4 cm = 23 cm 06 mm

c. 1 ℓ 400 ml + 900 ml

	ℓ	ml
	1	400
+	1	900
	2	300

1 ℓ 400 ml + 900 ml = 2 ℓ 300 ml

d. 5 kg 300 g + 800 g

	kg	g
	5	300
+	1	800
	6	100

5 kg 300 g + 800 g = 6 kg 100 g

f. 6 ℓ 500 ml + 3 ℓ 20 ml

	ℓ	ml
	6	500
+	3	020
	9	520

6 ℓ 500 ml + 3 ℓ 20 ml = 9 ℓ 520 ml

2. Subtract the following.

Solution:

a. 45 m - 20 m 12 cm

	m	cm
	45	00
-	20	12
	24	88

45 m - 20 m 12 cm = 24 m 88 cm

b. 5 kg 350 g - 1 kg 450 g

	kg	g
	5	350
-	1	450
	3	900

5 kg 350 g - 1 kg 450 g = 3 kg 900 g

c. 5 ℓ 400 ml - 3 ℓ 600 ml

	ℓ	ml
	5	400
-	3	600
	1	800

5 ℓ 400 ml - 3 ℓ 600 ml = 1 ℓ 800 ml

d. 9 cm 7 mm - 4 cm 6 mm

	cm	mm
	9	7
-	4	6
	5	1

9 cm 7 mm - 4 cm 6 mm = 5 cm 1 mm

e. $19 \text{ kg} - 6 \text{ kg } 250 \text{ g}$

	kg	g
	19	000
-	6	250
	12	750

$19 \text{ kg} - 6 \text{ kg } 250 \text{ g} = 12 \text{ kg } 750 \text{ g}$

f. $10 \text{ l } 500 \text{ ml} - 3 \text{ l } 750 \text{ ml}$

	l	ml
	10	500
-	3	750
	6	750

$10 \text{ l } 500 \text{ ml} - 3 \text{ l } 750 \text{ ml} = 6 \text{ l } 750 \text{ ml}$

3. Multiply the following.

Solution:

a. $6 \text{ m } 500 \text{ mm} \times 5$ (Express in cm)

$6 \text{ m } 500 \text{ mm} = 600 \text{ cm} + 50 \text{ cm} = 650 \text{ cm}$

$650 \text{ cm} \times 5 = 3250 \text{ cm}$

b. $65 \text{ g } 250 \text{ mg} \times 2$ (Express in g)

$65 \text{ g } 250 \text{ mg} = 65 \text{ g} + 0.250 \text{ g} = 65.250 \text{ g}$

$65.250 \text{ g} \times 2 = 130.500 \text{ g}$

e. $8750 \text{ g} \times 15$ (Express in kg)

$8750 \text{ g} = 8.750 \text{ kg}$

$8.750 \text{ kg} \times 15 = 131.25 \text{ kg}$

4. Divide the following.

Solution:

a. $4565 \text{ ml} \div 3$

$4565 \text{ ml} \div 3 = 1,521.67 \text{ ml}$

b. $954 \text{ g} \div 9$

$954 \text{ g} \div 9 = 106 \text{ g}$

c. $12.5 \text{ kl} \times 5$ (Express in l)

$12.5 \text{ kl} = 12,500 \text{ l}$

$12500 \text{ l} \times 5 = 62,500 \text{ l}$

d. $6540 \text{ mm} \times 8$ (Express in m)

$6540 \text{ mm} = 6.54 \text{ m}$

$6.54 \text{ m} \times 8 = 52.32 \text{ m}$

c. $12 \text{ km } 300 \text{ m} \div 5$

$12 \text{ km } 300 \text{ m} = 12,000 \text{ m} + 300 \text{ m} = 12,300 \text{ m}$

$12,300 \text{ m} \div 5 = 2460 \text{ m}$

d. $52,344 \text{ mg}$ by 18 (Express in g)

$52,344 \text{ mg} = 52.344 \text{ g}$

$52.344 \text{ g} \div 18 = 2.908 \text{ g}$

Exercise 1E

1. Sheena bought a cloth measuring 1 m 60 cm and Pooja bought another piece of cloth measuring 1 m 80 cm. What is the total weight of both the pieces of cloth?

Solution:

Length of cloth Sheena bought = 1 m 60 cm

Length of cloth Pooja bought = 1 m 80 cm

Total length of both clothes = 1 m 60 cm + 1 m 80 cm = 3 m 40 cm

The total length of two clothes is 3 m 40 cm

3. A bag weighs 17 kg 700 g and another bag weighs 11 kg 850 g. Find the total weight of the two bags.

Solution:

Weight of one bag = 17 kg 700 g

Weight of second bag = 11 kg 850 g

Total weight of two bags = 17 kg 700 g + 11 kg 850 g = 29 kg 550 g

Therefore, the total weight of two bags is 29 kg 550 g

2. Out of 13.560 km, Aman walked 3.285 km, drove 4.183 km and ran the remaining distance. How much distance did he run?

Solution:

Total distance travelled by Aman = 13.560 km

Distance that Aman walked = 3.285 km

Distance that Aman drove = 4.183 km

Distance that Aman ran = $13.560 - 3.285 - 4.183 = 6.092 \text{ km}$

Therefore, the distance Aman ran is 6.092 km.

4. 35 l of coke is to be put in cans. Each can have a capacity of 500 ml. How many cans would be needed?

Solution:

Capacity of one can = 500 ml

Total coke to be put in cans = 35 l = 35,000 ml

Number of can required = $35,000 \text{ ml} \div 500 \text{ ml} = 70 \text{ cans}$

5. One bottle contains 625 mℓ of water. There are 12 bottles in one carton. How much water (in litres) is there in the carton?

Solution:

One bottle contains water = 625 mℓ

Number of bottles in one carton = 12

Total water in one carton = 625 mℓ × 12 = 7500 mℓ

$$1 \text{ mℓ} = \frac{1}{1000} \ell$$

$$7500 \text{ mℓ} = \frac{7500}{1000} = 7.5 \ell$$

Exercise 1F

Circle the most appropriate answer.

Solution:



Weight of apple
900 g 110 g



Length of syringe
 10 cm 100 cm



Weight of brick
120 kg 2 kg



Capacity of can
 300 mℓ 3 ℓ



Length of pencil
 10 cm 100 cm



Capacity of bottle
 1 ℓ 10 ℓ

