

|  | MO | NTH | : NO\ | VEMBER |
|--|----|-----|-------|--------|
|--|----|-----|-------|--------|

**SESSION:1** 

CLASS : V

**SUBJECT : MATHEMATICS** 

**CHAPTER NUMBER: 16** 

**CHAPTER NAME : MEASUREMENT** 

SUB-TOPIC : INTRODUCTION, MEASUREMENT OF

LENGTH, WEIGHT AND CAPACITY. UNITS AND

CONVERSION

## **CHANGING YOUR TOMORROW**

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## Toll Free: 1800 120 2316

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### **RE-CAP**



- I. What is the length of your scale?
- I. What is your weight?
- I. How much water does your water bottle contain?
- I. What is the distance between your house and your school?
- I. What is your height?

We have already learned few basic things on measurement in our previous class.



STANDARD UNIT IS METRE STANDARD UNIT IS GRAM

STANDARD UNIT IS LITRE

### MEASUREMENT OF LENGTH



Height , length, breadth etc. are few words which denotes distance of any object.

However we use different units to measure different length. Ex: we use cm to measure very small length and km to measure long length or distance.





Milligram, gram and kilogram etc are few word used to denote the weight of an object.

We use milligram and gram to measure less quantity whereas kilogram is used to measure heavy objects.

Different tools to measure mass -



## MEASUREMENT OF CAPACITY



Millilitre, litre and kilo litre are few words which denote the capacity or volume of an object.

Different tools to measure mass -













| Units of Length    |  | Units of          | f mass                                      | Units of capacity  |  |
|--------------------|--|-------------------|---|--------------------|--|
| Millimetre<br>(mm) | $\frac{1}{1000} \text{ of } a \text{ metre}$ | Milligram<br>(mg) | $\frac{1}{1000} \text{ of } a \text{ gram}$ | Millilitre<br>(mL) | $\frac{1}{1000} \text{ of } a \text{ litre}$ |
| Centimetre<br>(cm) | $\frac{1}{100}$ of a metre                   | Centigram<br>(cg) | $\frac{1}{100}$ of a gram                   | Centilitre<br>(cL) | $\frac{1}{100}$ of a litre                   |
| Decimetre<br>(dm)  | $\frac{1}{10}$ of a metre                    | Decigram<br>(dg)  | $\frac{1}{10}$ of a gram                    | Decilitre<br>(dL)  | $\frac{1}{10}$ of a litre                    |
| A metre<br>(m)     | Standard unit                                | A gram<br>(g)     | Standard unit                               | A litre<br>(L)     | Standard unit                                |
| Decametre<br>(dam) | 10 metres                                    | Decagram<br>(dag) | 10 grams                                    | Decalitre<br>(daL) | 10 litres                                    |
| Hectometre<br>(hm) | 100 metres                                   | Hectogram<br>(hg) | 100 grams                                   | Hectolitre<br>(hL) | 100 litres                                   |
| Kilometre<br>(km)  | 1000 metres                                  | Kilogram<br>(kg)  | 1000 grams                                  | Kilolitre<br>(kL)  | 1000 litres                                  |











# Use your creativity to make a metric staircase using half a chart paper.





### Students are able:

- To identify the units for measuring mass, length and capacity.
- To get a clear idea about conversion of units of measurement.



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SESSION: 2

CLASS : V

SUBJECT : MATHEMATICS

**CHAPTER NUMBER: 16** 

**CHAPTER NAME : MEASUREMENT** 

SUB-TOPIC : MEASUREMENT OF LENGTH AND CONVERSION.

EXERCISE- 16 A

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We use different units to measure different lengths. Ex: We use cm to measure very small length and km to measure long length or distance.

#### The standard unit of measuring length is **METRE.**

| POINTS TO REMEMBER |           |  |  |  |
|--------------------|-----------|--|--|--|
| 1 KM = 1000 m      |           |  |  |  |
| 1 Hectometre       | = 100 m   |  |  |  |
| 1 decametre        | = 10 m    |  |  |  |
|                    | METRE     |  |  |  |
| 10 decimetre       | = 1 metre |  |  |  |
| 100 centimetre     | = 1 metre |  |  |  |
| 1000 millimetre    | = 1 metre |  |  |  |



## Conversion of

anoth



#### POINTS TO REMEMBER

| 1 KM            | = 1000 m  |
|-----------------|-----------|
| 1 Hectometre    | = 100 m   |
| 1 decametre     | = 10 m    |
| METRE           |           |
| 10 decimetre    | = 1 metre |
| 100 centimetre  | = 1 metre |
| 1000 millimetre | = 1 metre |

I. Convert 560 cm into dm and m

$$100 \text{ cm} = 1 \text{ m}$$
  
560 cm = 560

$$0 \text{ cm} = \frac{-300}{100} = 5.6$$

10 cm = 1 dm  
560 cm = 
$$\frac{560}{10}$$
  
= 56 dm



## Conversion of

anoth



#### POINTS TO REMEMBER

| 1 KM            | = 1000 m  |
|-----------------|-----------|
| 1 Hectometre    | = 100 m   |
| 1 decametre     | = 10 m    |
| METRE           |           |
| 10 decimetre    | = 1 metre |
| 100 centimetre  | = 1 metre |
| 1000 millimetre | = 1 metre |

2. Convert 745m into dam, hm and km









#### Express in m dm cm and mm.

- a. 1.133 m = 1 m l dm 3 cm 3 mm
- a. 23.036 m = 23 m 0 dm 3 cm 6 mm

#### Using decimal express in metres.

- a. 5m 7dm 8cm 9mm = 5.789 m
- a. 7m 6cm 1mm = 7.061 m

| kilo- | hecto- | deka- | (unit) | deci- | centi- | milli- |
|-------|--------|-------|--------|-------|--------|--------|







I. Express in m , dm , cm and mm

- a. 8.425 m = 8m 4 dm 2 cm 5 mm.
- a. 7.75 m = **7m 7 dm 5 cm**
- a. 27.078 m = **27m** 7 cm 8 mm.
- a. 52.064 m = **52m 6cm 4 mm.**

2. Using decimal express in metres

- a. 8m 6 dm 5 cm 2 mm. = 8.652 m
- b. 10m 8 dm 6 cm 5 mm. = 10.865 m
- c. 15m 8dm 1cm 9 mm. = 15.819 m
- d. Im 3dm = **I.37** m 7cm.







3. Express in km , hm , dam and m

- a. 2.355 km = **2 km 3 hm 5 dam 5 m.**
- a. 8.162 km = 8 km 1 hm 6 dam 2 m
- a. 30.750 km = **30 km 7 hm 5 dam**
- a. 35.250 km = **35 km 2hm 5 dam.**

4. Using decimal express in km.

- a. 1 km 1 hm 2 dam 9 m. = 1. 129 km
- b. 7 km 8 hm 2 dam 2 m. = 7.822 km
- c. 50 km 8dam 7 m. = 50. 087 km
- d. 24 km 5 hm 6 = **24.506 km** m.







## Complete Exercise 16 A the 1<sup>st</sup> four of q.no.1 to 4





### Students are able:

- To identify the units for measuring length
- To get a clear idea about conversion of units of measurement.



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SESSION: 3

CLASS : V

SUBJECT : MATHEMATICS

**CHAPTER NUMBER: 16** 

**CHAPTER NAME : MEASUREMENT** 

SUB-TOPIC : MEASUREMENT OF MASS AND CONVERSION.

EXERCISE- 16 A

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## Conversion of mass



We use different units to measure different mass or weight. Ex: We use milligram and gram to measure less quantities and kg to measure heavy or more quantities.

| 9 | GRAM.              |          |  |  |  |
|---|--------------------|----------|--|--|--|
|   | POINTS TO REMEMBER |          |  |  |  |
|   | 1 Kg               | = 1000 g |  |  |  |
|   | 1 Hectogram        | = 100 g  |  |  |  |
|   | 1 decagram         | = 10 g   |  |  |  |
|   |                    | GRAM     |  |  |  |
|   | 10 decigram        | = 1 g    |  |  |  |
|   | 100 centigram      | = 1 g    |  |  |  |
|   | 1000 milligram     | = 1 g    |  |  |  |

The standard unit of measuring mass is **GRAM.** 

**Measuring Mass** 



| POINTS TO REMEMBER |          |  |  |  |
|--------------------|----------|--|--|--|
| 1 Kg               | = 1000 g |  |  |  |
| 1 Hectogram        | = 100 g  |  |  |  |
| 1 decagram         | = 10 g   |  |  |  |
| GRA                | M        |  |  |  |
| 10 decigram        | = 1 g    |  |  |  |
| 100 centigram      | = 1 g    |  |  |  |
| 1000 milligram     | = 1 g    |  |  |  |

Conversion of mass



I. Convert 7285 g into dag, hg and kg.

$$10 \text{ g} = 1$$
  
 $dag$   
 $7285 \text{ g} = \frac{7285}{10} = 728.5 \text{ dag}$ 

$$100 g = 1$$
  
hg  
 $7285 g = \frac{}{7285}$   
 $= 72.85$   
hg

$$1000 g = 1$$
  
kg  
7285 g = 7285  
= 7.285  
kg  
1000

**Measuring Mass** 







5. Express in kg, hg , dag and g

- a. 3.127 kg = **3 kg l hg 2 dag 7 g.**
- a. 16.485 kg = 16 kg 4 hg 8 dag 5 g
- a. 0.758 kg= 7 hg 5 dag 8g
- a. 0.48 kg = 4 hg 8 dag

6. Using decimal express in kg

| a. 2 kg 2hg 7 dag 2 g      | = 2. 272 kg  |
|----------------------------|--------------|
| b. 5 kg 5 hg I dag 5<br>g. | = 5.515 kg   |
| c. 7 kg 2 dag 7 g.         | = 7 . 027 kg |
| d. 5 hg 3 g                | = 0.503 g    |

**Measuring Mass** 







7. Express in gm, dg , cg and mg

- a. 3. 164 g = **3 gm l dg 6cg 4mg.**
- a. 5.750 g = **5 gm 7 dg 5 cg**
- a. 0.5 g = 5 dg
- a. 0.185 g = **I dg 8 cg 5mg**

8. Using decimal express in grams

| a. 6 g 7 dg 2         | = 6. 702 g |
|-----------------------|------------|
| b. 2 g 2 dg 7 cg 1 mg | = 2.271 g  |
| c. 5 dg 7 cg 2 mg     | = 0.572 g  |
| d. 6 cg 6 mg          | = 0.066 g  |









## Complete Exercise 16 A the 1<sup>st</sup> four of q.no. 5 to 8





### Students are able:

- To identify the units for measuring mass.
- To get a clear idea about conversion of units of measurement.



# THANKING YOU ODM EDUCATIONAL GROUP



SESSION: 4

CLASS : V

SUBJECT : MATHEMATICS

**CHAPTER NUMBER: 16** 

**CHAPTER NAME : MEASUREMENT** 

SUB-TOPIC : MEASUREMENT OF CAPACITY AND CONVERSION.

EXERCISE- 16 A

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We use different units to measure different capacities. Ex: We use millilitre and litre to measure less capacity and kilo litre to measure more quantities.

The standard unit of measuring capacity is **LITRE.** 



EXERCISE 16 A



9. Express in L, dL , cL and mL

- a. 6.452 L = 6 L 4dL 5cL 2mL
- a. 8.616 L= 8 L 6dL 1cL 6mL
- a. 0.5 L= **5dL**
- a. 0.25 L = **2dL 5cL**

10. Using decimal express in litres

- a. 6L 6dL 7cL 2mL = 6.672 L
- b. 20 L 8 dL = 20.8 L

c.  $5L \ IdL \ 5cL \ 9mL = 5.159 L$ 

d. 2cL 5mL = 0.025 L







II. Express in kL, hL , daL and L

9.129 kL = 9kL **IhL** 2daL a. **9L** 7hL 7daL 0.775 kL= a. 5L 0.05 kL= 5da a. L IkL 1.1 kL = a. lhL

12. Using decimal express in kL

| a. | 3kL  | 5hL   | 3daL | = 3.532  |
|----|------|-------|------|----------|
| 2L |      |       |      | kL       |
| b. | 6kL  |       |      | =        |
| 7L |      |       |      | 6.007kL  |
| C. | 8kL  | 5daL  |      | = 8.05   |
| _  |      |       |      | kL       |
| d. | 15kL | . 3hL | 7daL | = 15.375 |
| 5L | •    |       |      | kL       |






## Complete Exercise 16 A the 1<sup>st</sup> four of q.no. 9 to 12





#### Students are able:

- To identify the units for measuring capacity.
- To get a clear idea about conversion of units of measurement.



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SESSION: 5

CLASS : V

SUBJECT : MATHEMATICS

**CHAPTER NUMBER: 16** 

**CHAPTER NAME : MEASUREMENT** 

SUB-TOPIC : EXPRESS METRIC UNITS USING DECIMAL NOTATIONS EXERCISE- 16 A

# **CHANGING YOUR TOMORROW**

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#### EXPRESSING MEASURING UNITS IN DECIMAL.



| Express the following in km and kg | Express the following in m and cm |
|------------------------------------|-----------------------------------|
| a. 2563 m =                        | a. 253 cm =                       |
| I km = 1000 m                      | I m = 100 cm                      |
| 2563 m = <u>2563</u><br>1000       | 253 cm = $\frac{253}{100}$        |
| = 2 . 563 km                       | = 2 . 53 m                        |
| a. 9087 g =                        | a. 9.23 m =                       |
| I kg = 1000 g                      | I m = 100 cm                      |
| $9087 g = \frac{9087}{1000}$       | 9.23 m = 9.23 x 100               |
| = 9 . 087 kg                       | = 923 cm                          |
|                                    |                                   |





13. Express in kg using decimal notation.

- a.  $4|53 g = 4|53 \div |000 = 4.153 kg$
- a.  $3000 \text{ g} = 3000 \div 1000 = 3 \text{ kg}$
- a.  $3856 g = 3856 \div 1000 = 3.856 kg$
- a.  $31636 \text{ g} = 31636 \div 1000 = 31.636 \text{ kg}$

| 14. Express in g |  |
|------------------|--|
|------------------|--|

| a. | 4.3 kg    | = 4.3 × 1000 =    | 4300 g  |
|----|-----------|-------------------|---------|
| b. | 19.63 kg  | = 19.63 × 1000 =  | 19630 g |
| c. | 35.365 kg | = 35.365 × 1000 = | 35365 g |
| d. | 36.3 kg   | = 36.3 × 1000 =   | 36300 g |



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15. Express in km using decimal notation.

- a. 365 m = 365 ÷ 1000 = **0.365 km**
- a.  $660 \text{ m} = 660 \div 1000 = 0.66 \text{ km}$
- a. 99 m = 99 ÷ 1000 = **0.099 km**
- a. 588 m = 588 ÷ 1000 = 0.588 km

| 16. | Express in m |  |
|-----|--------------|--|
|     |              |  |

- a.  $1.5 \text{ km} = 1.5 \times 1000 =$  1500 m b. 2.25 km  $= 2.25 \times 1000 =$  2250 m c. 5.75 km  $= 5.75 \times 1000 =$  5750 m d. 0.8 km  $= 0.8 \times 1000 =$  800 m
  - d.  $0.8 \text{ km} = 0.8 \times 1000 =$



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| a. $50 \text{ cm} = 50 \div 100 = 0.5 \text{ m}$ | n |
|--|---|
|--|---|

- a.  $100 \text{ cm} = 100 \div 100 = 1 \text{ m}$
- a. 125 cm = 125 ÷ 100 = 1.25 m
- a.  $500 \text{ cm} = 500 \div 100 = 5 \text{ m}$



| 18. Express in cm |                |        |  |
|-------------------|----------------|--------|--|
| a. 0.15 m         | = 0.15 × 100 = | l5 cm  |  |
| b. 0.05 m         | = 0.05 × 100 = | 5 cm   |  |
| c. 2.75 m         | = 2.75 × 100 = | 275 cm |  |
| d. 3.25 m         | = 3.25 × 100 = | 325 cm |  |





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## Complete Exercise 16 A the 1<sup>st</sup> four of q.no. 13 to 18





#### **Students are able:**

- To identify the units for measurement..
- To express the units of measurement in decimal.



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SESSION: 6

CLASS : V

SUBJECT : MATHEMATICS

**CHAPTER NUMBER: 16** 

**CHAPTER NAME : MEASUREMENT** 

SUB-TOPIC : FUNDAMENTAL OPERATIONS IN METRIC MEASURE EXERCISE 16 B

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Expressing units in decimal notation:

a.56 kg 7 hg 3 dag 2 g = 56. 7 3 2 b. 2 dm 8 m = 0.208c. 5 g 5 cg 7 mg = 5.057d. 6 kL 6hL 2 L = 6.602kL e. 8 m 9 dm 4 cm 1 mm = 8.94 I

m

As we have already learned about expressing units in decimal, Today we'll solve operations in metric measure.











#### EXPRESSING IN DECIMAL AND OPERATIONS.



- I. Express in decimal then add
- a. 6 m 7 dm 2 cm 5 mm : 2 dm 3 cm 1 mm

- 2. Express in decimal and subtract
- a. 100 kL 265L from 326 kl 003 l









#### EXPRESSING IN DECIMAL AND OPERATIONS.





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a. 2 km 6 hm 4 dam 2 m : 8 km 8 dam : 10 km 6 hm 2 dam 8 m

2.642 + 8.080 10.628 **21.350** 

Ans. 21 . 350 km

b. 6 m 7 dm 2 cm 5 mm : 8 m 8 dm 6 cm 6 mm : 10 m 5 mm

Ans. 25 . 596







c. 6 kg 7 hg 5 dag 6 g : 8 hg 7 g : 4 kg 2 hg 2 g : 10 kg

6.756 + 0.807 4.202 10.000 **21.765** 

Ans. 21 . 765 kg





2. Express in decimal and then subtract

EXERCISE 16 B

a. 25 km 625 m from 50 km 50 m

50.050 - 25.625 **24.425** Ans. 24.425 km

b. 66 kg 725 g from 92 kg 6 hg 8 g
9 2 . 6 0 8
- 6 6 . 7 2 5
2 5 . 8 8 3
Ans. 25 . 883
kg





2. Express in decimal and then subtract

- c. 125 kL 615 L from 145 kL 220 L
  - | 4 5 . 2 2 0 - | 2 5 . 6 | 5 | **9 . 6 0 5**

Ans. 19.605 kL

EXERCISE 16 B





3 . Express in decimal and then multiply

a. 7 km 2 hm 7 dam 5 m by 48

Ans. 349.2 km

EXERCISE 16 B

b. 25 kg 620 g by 27

Ans. 691 . 740 kg





3 . Express in decimal and then multiply

c. 6 hm 4 dam 6 m by 72

Ans. 46 km 512 m

EXERCISE 16 B







# Complete Exercise 16 B q.no. 1 to 3





#### **Students are able:**

- To identify the units for measurement..
- To express the units of measurement in decimal.
- To add, subtract and multiply the units of measurement with decimal notation.



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SESSION: 7

CLASS : V

SUBJECT : MATHEMATICS

**CHAPTER NUMBER: 16** 

**CHAPTER NAME : MEASUREMENT** 

SUB-TOPIC : FUNDAMENTAL OPERATIONS IN METRIC MEASURE EXERCISE 16 B

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a. 591 kg 7 hg 3 dag 6 g by 68

= 519.736 ÷ 68



EXERCISE 16 B



Ans. 8 . 702 kg



EXERCISE 16 B

b. 49 m 4 dm 6 cm 4 mm by 54

```
= 49.464 ÷
                      0
                            9 | 6
                        . 4 6
                54
                    49
                    40
                    4 9 4
                    4 8 6
                         8
                           6
                         5
                           4
                         3 2 4
                         3 2 4
                            0
```



Ans. 0.916 m

54



EXERCISE 16 B

c. 936 kL 312 L by 39 [answer in litres.]



Ans. 24008 L





EXERCISE 16 B

d. 3831 m 24 cm by 84





Ans. 45 . 61 m

# EXERCISE 16 B





39.56

60.44

Ans. 60.44 kg

a. By how much 25.36 m is more than 15.85 m?

The difference between 25 . 36 m and 15.85 m is

So, 25.36 m is 9.51 m more than 15.85 m.



EXERCISE 16 B



c. By how much is the sum of 27.35kl and 50.83 kl less than the sum of 100 kl and 16.32 kl?

The sum of 100 kl and 16.32 kl = 
$$+$$
 16.32



So, the sum of 27.35kl and 50.83 kL is **38**. **14** kL less than the sum of 100 kL and 16.32 kL.

5.





6. Multiply 925 g by 125, give your answer in kg.

1000 g = 1 kg

||5625 g = ||5625 ÷ |000 = ||5.625 kg







7. Divide 4.224 km by 96. Give your answer in metres.



l km = 1000 m 0.044 km = 0.044 x 1000= **44 m** 







8. Divide 0.175 L by 25. Give your answer in mL.



I L = 1000 mL 0.007 L = 0.007 x 1000= **7 mL**  KING HENRY (USUALLY) CHOCOLATE DOESN'T DRINK MILK





# Complete Exercise 16 B Q.No 4 to 8 in the copy.





#### Students are able:

- To identify the units for measurement..
- To express the units of measurement in decimal.
- To add, subtract, multiply and divide the units of measurement with decimal notation.


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SESSION: 8

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 16

**CHAPTER NAME : MEASUREMENT** 

SUB-TOPIC : WORD PROBLEMS IN DECIMAL

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### **COMPETENCY BASED QUESTIONS (SAFAL)**



To make fruit salad for her birthday, Ramya went to market to buy some fruits. There she saw a lot of different seasonal fruits. After thinking for a while she decided and bought 2. 575 kg apples, 700 g grapes, 950 g bananas, 567 g strawberries. After reaching home she noticed that the fruit seller has packed 1 kg of grapes.

- 1. What is the total quantity of fruits she bought?
- 2. What will you do if you get more than what you've paid for?
- 3. What are some seasonal fruits?

### Solution

| 1.   | 1. Apples bought = |         | 2.575 |
|------|--------------------|---------|-------|
| Gra  | apes =             | 0.700 g | kg    |
| •••• |                    | U       |       |

Bananas = 0.950 g

Strawberries = 0.567 g

Total quantity of fruit = 4 kg 9 7 4 g



|   | 2 | • | 5 | 7 | 5 |
|---|---|---|---|---|---|
|   | 0 | • | 7 | 0 | 0 |
| + | 0 | • | 9 | 5 | 0 |
|   | 0 | • | 5 | 6 | 7 |
|   |   |   |   |   |   |

### 4.792



### **COMPETENCY BASED QUESTIONS (SAFAL)**

Joy stays in Kalarahanga. His mother drops him to school everyday by travelling a distance of 4 km 325 m. One day his mother's friend Mrs. Lisa visited their house. After a while they came to know that her daughter Anna also studies in Joy's school. Then they decided to do car pooling. Joy's mother has to travel 2 km 075 m more to drop the children to school.

- 1. How much distance will Joy's mother travel to drop the children to the school
- 1. Write any 2 advantages of car pooling.

1. Distance from house to school = 4.325 k m

More distance need to travel = 2.075 km

Total distance need to travel to drop both the children = 6 Km 400

2. i. Car pooling saves fuel.ii. It saves money.







| + | 2.      | 075 |  |
|---|---------|-----|--|
| т | ー・<br>つ | 075 |  |

m



#### Ans:

The capacity of three petrol drums = 16.62 kL

25. 25 kL 75 . 68 kL



| = 117 . 55 kL  |         |
|--|---------|
|  | 117.55  |
| Total petrol they can hold = 16 . 62 kL + 25. 25 kL + 75 . 68 kL | 75.68   |
|  | + 25.25 |
|  | 16.62   |

Therefore , the three drums can hold **117.55 kL** petrol.



2. If 36 tins of oil weighs 567 kg. What is the weight of 1 tin? Also find



393.75

3. A long sleeved shirt requires 2 m 6 dm 5 cm of cloth. How much cloth will be required for 15 such shirts? Give your answer in metre.

Ans.

| Cloth required for 1 shirt = 2 m 6 dm 5 cm         | 2.65  |
|--|-------|
| Cloth required for 15 chirts - 2 65 x 15 - 20 75 m | X 15  |
|  | 1325  |
|  | 2650  |
|  | 39.75 |

Thus to make 15 shirts 39. 75 m cloth is required.





4. A car in a journey requires 6.38 L of petrol per hour. How many litres

of petrol will be required for a journey of 7.25 hours?

| Ans. |  |
|------|--|
|------|--|

Petrol required for 1 hr of journey = 6.38 L

Petrol r

|                            |            | 46.2550 |
|----------------------------|------------|---------|
|                            |            | 446600  |
|                            |            | 12760   |
|                            | = 46.255 L | 3190    |
|                            |            | X 7.25  |
| required for 7. 25 hours = | 6.38x7.25  | 6.38    |

Thus 46.255 litres of petrol is required for the journey of 7.25 hours.









### Complete Exercise 16 C Q.No 5 & 6 in the copy.





### Students are able:

- To identify the units for measurement..
- To express the units of measurement in decimal.
- To add, subtract, multiply and divide the units of measurement with decimal notation.



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SESSION: 9

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 16

**CHAPTER NAME : MEASUREMENT** 

SUB-TOPIC : WORD PROBLEMS IN DECIMAL

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### **EXERCISE 16 C**



8. A rope is 15 m 60 cm long. How many pieces each measuring 25 cm long can be cut from it? Find the length of remaining rope.

Ans.

Length of the rope = 15 m 60 cm = 1560 cm

No. of pieces of 25 cm =  $1560 \div 25 = 62$  pieces.

The length of rope remained = **10 cm** 

Therefore 62 pieces of 25 cm each can be cut from the rope and 10 cm will remain extra.



If 1 m = 100 cm 15 m 60 cm = 15 x 100 + 60 = **1560 cm** 



### **EXERCISE 16 C**

9. How many 0.20 litre cups can be filled up from a 5 litre jug of lemonade?

Ans.

Lemonade in the jug = 5 L = 50 dL

No. Of cups of 0 . 20 L =  $5 L \div 0.20 L$ 

= 50 dL ÷ 2 dL = 25 cups

Thus 25 cups of 0.20 L can be filled up from 5L jug of lemonade.







#### EXERCISE 16 C

10. John gives ₹ 3565 for 50 litres of petrol. Find the cost of petrol per litre. Also find the cost of 30 litres of petrol.

Ans.

Cost of 50 L petrol = ₹3565

Cost of 1 L petrol = 3565 ÷ 50 = ₹ 71.3

Cost of 30 L petrol = 30 x 71.3 = ₹ 2,139

So the cost of petrol per litre is ₹ 71.3 and the cost of 30 L of petrol is ₹ 2, 139.











## **Complete Exercise 16 C in the copy.**





### Students are able:

- To identify the units for measurement..
- To express the units of measurement in decimal.
- To add, subtract, multiply and divide the units of measurement with decimal notation.
- To use the measurement in daily life.



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