ODM EDUCATIONAL GROUP
Changing your Tomorrow

MONTH : DECEMBER

SESSION : 27

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 16

CHAPTER NAME : MEASUREMENT

SUB-TOPIC : WORD PROBLEMS IN DECIMAL

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LEARNING OBJECTIVE :

Enable learners :

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

Write in notebook

WORD PROBLEMS

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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. Apples bought = 2 . 575 kg

Grapes = 0.700 g

Bananas = 0.950 g

Strawberries = 0. 567 g

Total quantity of fruit = **4 kg 9 7 4 g**

$$\begin{array}{r} 2.575 \\ 0.700 \\ +0.950 \\ 0.567 \\ \hline 4.792 \end{array}$$

Write in notebook

WORD PROBLEMS

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

2. Write any 2 advantages of car pooling.

1. Distance from house to school = 4 . 3 2 5 k m

More distance need to travel = 2 . 0 7 5 k m

$$\begin{array}{r} 4.325 \\ +\ 2.075 \\ \hline 6.400 \end{array}$$

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

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

EXERCISE 16 C

1. Three drums can hold 16.62kl, 25.25 kl and 75.68 kl of petrol respectively. How much petrol can they hold in all?

Ans:

The capacity of three petrol drums = 16 . 62 kL

25. 25 kL

75 . 68 kL

Total petrol they can hold = 16 . 62 kL + 25. 25 kL + 75 . 68 kL

= 117 . 55 kL

$$\begin{array}{r} 16.62 \\ +\ 25.25 \\ \hline 75.68 \\ \hline \mathbf{117.55} \end{array}$$

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

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2. If 36 tins of oil weighs 567 kg. What is the weight of 1 tin? Also find the weight of 25 tins.

Ans.

Weight of 36 tins of oil = 567 kg

Weight of 1 tin = 567 kg ÷ 36 = **15.75 kg**

Weight of 25 tins = 15.75 kg x 25 = **393.75 kg**


```
   15.75
36|567.00
  36
  ---
  207
  180
  ---
   270
   252
   ---
    180
    180
    ---
      0
```

```
  15.75
X   25
------
  7875
31500
------
393.75
```

Therefore the weight of 1 tin is 15.75 kg and 25 tins is 393.75 kg.

EXERCISE 16 C

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

Cloth required for 15 shirts = 2 . 65 x 15 **= 39 . 75 m**

$$\begin{array}{r} 2.65 \\ \times \quad 15 \\ \hline 1325 \\ 2650 \\ \hline 39.75 \end{array}$$

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

EXERCISE 16 C

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 required for 7. 25 hours = 6 . 38 x 7 . 25

= **46 . 255 L**

```
   6 . 3 8
X  7 . 2 5
-----------
     3 1 9 0
   1 2 7 6 0
 4 4 6 6 0 0
-----------
 4 6 . 2 5 5 0
```

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

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

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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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THANKING YOU

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