MONTH : DECEMBER

SESSION : 26

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 16

CHAPTER NAME : MEASUREMENT

SUB-TOPIC : FUNDAMENTAL OPERATIONS IN METRIC MEASURE

EXERCISE 16 B

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.

4 . Express in decimal and then divide

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

   = 519.736 ÷ 68

```
              8  .  7  0  2
          _____
     68  | 5  9  1  .  7  3  6
           5  4  4
          _____
               4  7  7
               4  7  6
              _____
                    1  3
                       0
                  _____
                       1  3  6
                       1  3  6
                      _____
                          0
```

Ans. **8 . 702 kg**

4 . Express in decimal and then divide

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

= 49 . 464 ÷ 54

```
             0 .  9  1  6
        54 | 4 9 . 4  6  4
             0
            ─────
             4  9  4
             4  8  6
            ─────
                8   6
                5   4
              ─────
                  3  2  4
                  3  2  4
              ─────
                     0
```

Ans. **0 . 9 1 6 m**

4 . Express in decimal and then divide

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

= 936 . 312 ÷ 39

```
           2 4 .  0  0  8
      39 │ 9 3 6 . 3 1 2
           7 8
          ───────
           1 5 6
           1 5 6
          ─────────
               0  3
                  0
              ───────
                  3  1
                  0
              ─────────
                     3  1 2
                     3  1 2
                  ────────────
                        0
```

1000 kL = 1 L

24 kL 008 L =

24 X 1000 + 008

= **24008 L**

Ans. **24008 L**

Measurement

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

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4 . Express in decimal and then divide

d. 3831 m   24 cm by 84

= 3831 . 24 ÷ 84

```
                 4 5 .  6 1
         84 | 3 8 3 1 . 2 4
              3 3 6
              _____
                4 7 1
                4 2 0
              _____
                    5 1 2
                    5 0 4
                  _____
                        8 4
                        8 4
                      _____
                          0
```

Ans. **45 . 61 m**

Measurement

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

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        DOESN'T   DRINK   MILK

5 .

a.   Subtract 39.56 kg from 100 kg

```
      9  9   9 10
     1 0 0 . 0 0
   -   3 9 . 5 6
```

6 0 . 4 4

Ans. **60 . 44 kg**

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

The difference between 25 . 36 m and 15.85 m is

```
     2 5 . 3 6
   - 1 5 . 8 5
```

9 . 5 1

So, 25.36 m is **9.51 m** more than 15 .85 m.

5 .

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 27.35 kl and 50 .83 kl =

$$
\begin{array}{r}
2\ 7\ .\ 3\ 5 \\
+\ \ 5\ 0\ .\ 8\ 3 \\
\hline
\boxed{7\ 8\ .\ 1\ 8}
\end{array}
$$

The sum of 100 kl and 16.32 kl =

$$
\begin{array}{r}
1\ 0\ 0\ \ .\ 0\ 0 \\
+\ \ \ \ \ 1\ 6\ \ .\ 3\ 2 \\
\hline
\boxed{1\ 1\ 6\ .\ 3\ 2}
\end{array}
$$

The difference between the sums=

$$
\begin{array}{r}
1\ 1\ 6\ .\ 3\ 2 \\
-\ \ \ \ 7\ 8\ .\ 1\ 8 \\
\hline
\boxed{3\ 8\ .\ 1\ 4}
\end{array}
$$

Measurement

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.

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

```
      9 2 5
  X   1 2 5
      4 6 2 5
    1 8 5 0 0
    9 2 5 0 0
```

1 1 5 6 2 5

1000 g = 1 kg

115625 g = 115625 ÷ 1000 = **115 . 625 kg**

Measurement

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

```
              0 . 0 4 4
        ┌──────────────
    96  │ 4 . 2 2 4
        │ 0
        │ ─────────
        │   4 2
        │   0
        │ ─────────
        │   4 2 2
        │   3 8 4
        │ ─────────
        │     3 8 4
        │     3 8 4
        │   ─────────
        │       0
```

1 km = 1000 m

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

Measurement

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

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

$$
\begin{array}{r}
0 \ . \ 0 \ 0 \ 7 \\
25\overline{\smash)0\ .\ 1\ 7\ 5} \\
0 \\
\overline{0\ 1} \\
0 \\
\overline{1\ 7} \\
0 \\
\overline{1\ 7\ 5} \\
1\ 7\ 5 \\
\overline{0}
\end{array}
$$

1 L = 1000 mL

0.007 L = 0.007 x 1000=   **7 mL**

Measurement

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

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.

THANKING YOU
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