

## P.7 MATHEMATICS

### LESSON ONE WEEK FIVE

**TOPIC: FRACTIONS**

**SUB TOPIC: ADDITION AND SUBTRACTION OF DECIMALS**

#### Examples

1. Add:  $3.4 + 24.63$

$$\begin{array}{r} 24.63 \\ + 3.40 \\ \hline 28.03 \end{array}$$

2. Alex had 7.05 meters and Kato had 17.13 meters of string. Find the total length of their string. Find the total length of their strings.

$$\begin{array}{r} 17.13 \text{ metres} \\ + 7.05 \text{ metres} \\ \hline 24.18 \text{ metres} \end{array}$$

3. Subtract  $9.5 - 3.6$

$$\begin{array}{r} 8.9 \\ - 3.6 \\ \hline 5.3 \end{array}$$

4. Subtract 0.9 from 100

$$\begin{array}{r} 100.0 \text{ re-group} \\ - 0.9 \\ \hline 99.1 \end{array}$$

#### ACTIVITY:

Work out the following

1.  $6.4 + 9.$

2.  $166.66 + 0.4$

3.  $5.55 + 555$

4.  $676.6 - 67.7$

5.  $100 - 0.101$

6.  $30 - 0.3$

## LESSON TWO

### SUBTOPIC : MULTIPLICATION OF DECIMALS

#### CONTENT :

1. Multiply:  $0.3 \times 6$

$$\begin{array}{r} {}^10.3 \\ \times 6 \\ \hline \mathbf{1.8} \end{array}$$

$$\begin{array}{l} 6 \times 3 = 18 \\ 6 \times 0 = 0 + 1 = 1 \end{array}$$

2. Multiply:  $4.5 \times 2.6$

$$\frac{45}{10} \times \frac{26}{10}$$

$$\frac{45 \times 26}{10 \times 10}$$

$$\frac{1170}{100} =$$

**11.7**

3. Find the product of 2.34 and 1.2

$$\begin{array}{r} 2.34 \\ \times 1.2 \\ \hline 468 \\ +234 \\ \hline \mathbf{2.808} \end{array}$$

**NOTE:** After multiplying and adding, we consider the decimal places altogether.

#### **ACTIVITY:**

Work out the following

1  $3.3 \times 2$

4  $9.8 \times 2.2$

2  $32.5 \times 0.3$

5  $9.4 \times 100$

3  $6.6 \times 1.2$

6  $144.4 \times 100$

**LESSON THREE**  
**SUBTOPIC : DIVISION OF DECIMALS**

1. Work out:  $4.5 \div 2.5$

$$\frac{45}{10} \div \frac{25}{10}$$

$$\frac{45}{10} \times \frac{10^2}{25 \cdot 5}$$

$$\frac{45 \times 2}{10 \times 5}$$

$$\frac{18}{10}$$

$$= \underline{\underline{1.8}}$$

2. Divide 0.5 by 10

$$0.5 \div 10$$

$$\frac{5}{10} \div \frac{10}{1}$$

$$\frac{5}{10} \times \frac{1}{10}$$

$$\frac{5 \times 1}{10 \times 10}$$

$$\frac{5}{100}$$

$$= \underline{\underline{0.005}}$$

**ACTIVITY**

Work out the following

a)  $12 \div 0.2$

b)  $0.8 \div 2$

c)  $8.5 \div 0.5$

d)  $100 \div 0.1$

e)  $14.4 \div 1.2$

f)  $200 \div 0.02$

**LESSON FOUR :**  
**TOPIC : FRACTIONS**  
**SUBTOPIC : MULTIPLICATION AND DIVISION OF DECIMALS**  
**CONTENT :**

1) Work out  $\frac{1.2 \times 2.4}{0.3}$

$$\left[ \frac{12}{10} \times \frac{24}{10} \right] \div \frac{3}{10}$$

$$\frac{12}{10} \times \frac{24}{10} \times \frac{10}{3}$$

$$\frac{12 \times 8 \times 1}{10 \times 1 \times 1} = \frac{96}{10} = \underline{\underline{9.6}}$$

2) Simplify:  $\frac{1.8 \times 7.2}{0.2 \times 0.03}$

$$\left[ \frac{18 \times 72}{10 \times 10} \right] \div \left[ \frac{2 \times 3}{10 \times 100} \right]$$

$$\frac{18^{9-3} \times 72 \times 10 \times 100}{10 \times 10 \times 2 \times 3} = \frac{3 \times 72 \times 10}{1 \times 1 \times 1 \times 1}$$

$$= \underline{\underline{2160}}$$

### ACTIVITY

Work out the following:

1)  $\frac{1.6 \times 7.2}{0.06}$

4)  $\frac{0.045 \times 0.9}{0.9 \times 0.03}$

2)  $\frac{12.3 \times 2.4}{3.6}$

5)  $\frac{6.4 \times 2.8}{0.04}$

3)  $\frac{36 \times 0.4}{0.9}$

6)  $\frac{1.8 \times 3.5}{0.7 \times 0.3}$

### LESSON FIVE

#### SUB TOPIC: ORDERING DECIMALS

CONTENT: (i) Ascending order  
(ii) Descending order

#### Examples:

1. Arrange 0.36, 0.054, 0.07 and 0.8 in descending order.  
Express decimals as fractions

$$0.36 = \frac{36}{100} \quad 0.054 = \frac{54}{1000} \quad 0.07 = \frac{7}{100}$$

$$0.8 = \frac{8}{10}$$

Find the LCD which is 1000.

$$\frac{36}{100} \times 1000$$

$$\frac{54}{1000} \times 1000$$

$$\frac{7}{100} \times 1000$$

$$\frac{8}{10} \times 1000$$

$$= 36 \times 10 = 360 (2^{\text{nd}})$$

$$= 54 \times 1 = 54 (4^{\text{th}})$$

$$= 7 \times 10 = 70 (3^{\text{rd}})$$

$$= 8 \times 100 = 800 (1^{\text{st}})$$

$\therefore$  Order = **0.8, 0.36, 0.07, 0.054**

**ACTIVITY:**

**Arrange the decimals as instructed in the brackets.**

1. 0.22, 0.2, 1.2 (from biggest)
2. 0.1, 0.3, 0.33 (from smallest)
3. 2.2, 0.22, 0.02 (from biggest)
4. 1.05, 0.15, 1.5. (From smallest.)
5. 0.08, 0.8, 0.34. (from biggest)