P.5 MATHS LESSON NOTES WEEK 3 OCTOBER

LESSON 1

Multiplication of decimal fractions by 10, 100 and 1000

Examples

1. Multiply 6.45 x 10

$$\frac{645 \times \cancel{10}}{\cancel{100}}$$

$$10$$

$$= \frac{645}{10}$$

$$= 64.5$$

N.B

Change decimal to common fraction.

1.
```
            64.5
      10 | 645
6x10=   -60
          45
4x10=   -40
          50
5x10=  -50
          --
```

2. 6.45 x 100

$$\frac{645 \times \cancel{100}}{\cancel{100}}$$

$$1$$

$$= \frac{645 \times 1}{1}$$

$$= \frac{645}{1}$$

$$= 645$$

$$645 \times \frac{\cancel{1000}}{\cancel{100}}^{10}_{1}$$

$$= \quad 645 \times 10$$

$$= \quad 6{,}450$$

$$= \quad 6{,}450$$

3.   6.45 x 1000

Exercise

Multiply

1. 0.25 x 10
2. 15.6 x 10
3. 0.125 x 100
4. 9.46 x 100
5. 0.758 x 100

6. 0.876 x 100
7. 8.376 x 1000
8. 0.125 x 100
9. 0.125 x 1000
10. 0.723 x 100

LESSON 2

Multiplication of decimal fractions

Examples

27 x 05

$$\frac{27 \times 5}{10}$$

$$\frac{27 \times 5}{10}$$

$$= \quad 135$$

10

= <u>13.5</u>

³
27

x 5

135

13.5
      ⎤
<u>10</u>⎦ 135

1x10=<u>-10</u>
        35
3x10=<u>-30</u>
        50
5x10= <u>-50</u>

2.   2.3 x 0.2   23

<u>23 x 2</u>   <u>x 2</u>
10   10   46
 <u>23 x 2</u>
  10 x 10
= <u>46</u>   <u>0.46</u>
   100   ⎤
= 0.46   <u>   </u>⎦ 100 460
                    4x100=   <u>400</u>
                             600

                    6x100-   <u>-600</u>

<u>Exercise</u>
1.   0.6 x 0.06
2.   0.2 x 0.4
3.   2 x 0.5
4.   1.4 x 0.5

5. 0.03 x 0.3
6. Find the area of a rectangular garden measuring 12.5 metres long and 10   metres wide.

LESSON 3

DIVISION OF DECIMAL FRACTIONS

Example: $0.2 \div 0.2$

First change to common fractions.

$$= \frac{2}{10} \div \frac{2}{10}$$

$$= \frac{{}^{1}2}{{}_{1}10} \times \frac{{}^{1}10}{2_{1}}$$

$$= \underline{1}$$

Activity

Work out the following

1. $0.24 \div 0.6$

2. $0.04 \div 0.2$

3. $8 \div 0.1$

4. $3.6 \div 04$

5. A piece of cloth material is 1.2m long. If it's divided into small pieces each 0.3m, how many pieces will be got?

<u>**LESSON 4**</u>

Theme 2   Numeracy

Topic   3: Integers

- positive integers on number lines

- negative integers, zero and positive integers

- ordering integers

- inverse and additive inverses

- arrows on number lines

- addition of integers without a number line

- addition of integers using a number line

- subtraction of integers without using number lines

- subtraction of integers using number lines

- forming mathematical statements from number lines
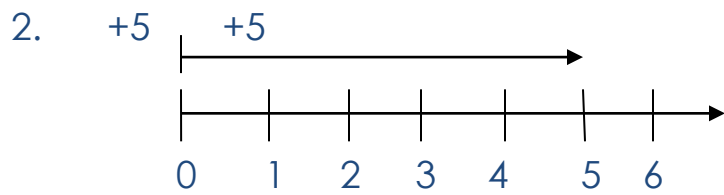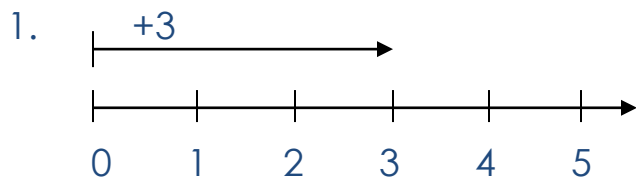
Theme 2   :   Numeracy

Topic   3   :   Integers

Positive integers on number lines

Positive integers are written with a plus (+) sign or without.

Examples

Show the following positive integers on the number line.

1.

+3

```
|————————————————→
|——————|——————|——————|——————|——————|——————→
0      1      2      3      4      5
```

2.   +5   +5

```
    |——————————————————————————→
|——————|——————|——————|——————|——————|——————|——————→
0      1      2      3      4      5      6
```

Exercise

Draw number line to represent the positive integers below

1.   +4

2.   +6

3.   +7

4.   +8

5.   +9

6.   +2

LESSON 5

Negative integers, zero and positive integers

Integers representing expressions

Examples

1. A girl got no marks in a test

   This expression is represented by 0

2. A boy lost five marks in a test

   Represented by -5

3. A shopkeeper got sh.10

   Represented by +10

Exercise

Show these expressions using integers

1. A boy gained 20 marks in a test

2. A shopkeeper lost shs. 20

3. A shopkeeper got no money

4. A profit of shs. 30

5. A loss of 20 marks

6. Two steps forward

7. 3 metres below the ground

8. 5 metres above the ground