

P.5 MATHS LESSON NOTES WEEK 1

LESSON 1

Multiplication of decimal fractions by 10, 100 and 1000

Examples

1. Multiply 6.45×10

$$\begin{array}{r} \underline{645 \times 10} \\ 100 \\ 10 \\ = \underline{645} \\ 10 \\ = 64.5 \end{array}$$

N.B

Change decimal to common fraction.

1.

$$\begin{array}{r} \boxed{64.5} \\ \underline{10} \boxed{645} \\ 6 \times 10 = \underline{-60} \\ 45 \\ 4 \times 10 = \underline{-40} \\ 50 \\ 5 \times 10 = \underline{-50} \\ -- \end{array}$$

2.

$$\begin{array}{r} \underline{6.45 \times 100} \\ \underline{645 \times 100} \\ 100 \\ 1 \\ = \underline{645 \times 1} \\ 1 \\ = \underline{645} \\ 1 \\ = \underline{645} \end{array}$$

$$\begin{array}{r} 10 \\ \underline{645 \times 1000} \end{array}$$

$$-100$$

$$1$$

$$= \underline{645 \times 10}$$

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

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

$$3. \quad 6.45 \times 1000$$

Exercise

Multiply

$$1. \quad 0.25 \times 10$$

$$2. \quad 15.6 \times 10$$

$$3. \quad 0.125 \times 100$$

$$4. \quad 9.46 \times 100$$

$$5. \quad 0.758 \times 100$$

$$6. \quad 0.876 \times 100$$

$$7. \quad 8.376 \times 1000$$

$$8. \quad 0.125 \times 100$$

$$9. \quad 0.125 \times 1000$$

$$10. \quad 0.723 \times 100$$

LESSON 2

Multiplication of decimal fractions

Examples

$$27 \times 05$$

$$\begin{array}{r} \underline{27 \times 5} \\ 10 \end{array}$$

$$\begin{array}{r} \underline{27 \times 5} \\ 10 \end{array}$$

$$= \underline{135}$$

10

= 13.5

³
27

x 5

135

13.5
10 | 135

1x10=-10
35

3x10=-30
50

5x10=-50

2. 2.3 x 0.2

23

23 x 2
10 10

x 2
46

23 x 2
10 x 10

= 46
100

= 0.46

0.46
 | 100 460
4x100= 400
600

6x100- -600

Exercise

1. 0.6 x 0.06

2. 0.2 x 0.4

3. 2 x 0.5

4. 1.4 x 0.5

5. 0.03×0.3
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.

$$\begin{aligned}
 &= \frac{2}{10} \div \frac{2}{10} \\
 &= \frac{\cancel{2}^1 \times \cancel{10}^1}{\cancel{10}_1 \cancel{2}_1} \\
 &= \underline{\underline{1}}
 \end{aligned}$$

Activity

Work out the following

1. $0.24 \div 0.6$
2. $0.04 \div 0.2$
3. $8 \div 0.1$
4. $3.6 \div 0.4$
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?

LESSON 4

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

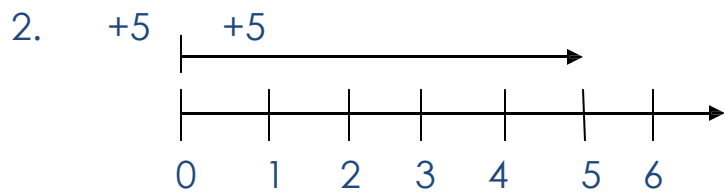
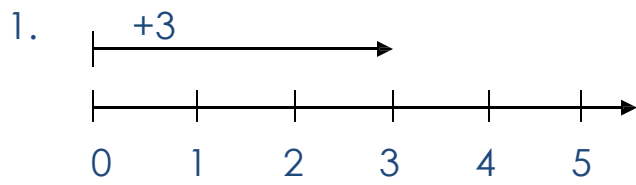
Topic 3 : Integers

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.



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