PRIMARY THREE MATHS LESSON NOTES TERM I SET CONCEPTS

What is a set?

- A set is a collection of well-defined objects.
- Things found in a set are called members or elements.

Example of sets.

a) A set of the first five letters of alphabet.

b). A set of 2 trees.





Exercise 1a:

Draw and name the following sets:

1. A set of 4 girls. 2) A set of 5 chairs.

3) A set of 3 stars. 4) A set of 2 huts.

TYPES OF SETS.

- 1. Equal sets
- 2). Non-equal sets
- 3). Equivalent sets 4) Non equivalent sets

- 5). Empty sets
- 6). Intersecting sets
- 7). Union set.

EQUAL or IDENTICAL SETS (" = ")

• Equal sets are sets which have exactly the same type of members.

Example;

Set A = { c , u , t } and B = { t , u , c }
 Set A is equal to set B.
 A = B

NON- EQUAL SETS ()

Non –equal sets which have different number of members of different kind.

Example;

Set $B=\{e, t, o\}$ and set $D=\{b, y\}$

Set B is not equal to D.

 $B \neq D$

Exercise 1b;

Write equal or not equal.

1. Set $P=\{1, 2, 3, 4, 5\}$ and set $Q=\{3, 5, 2, 1, 4\}$. Set P is ______to set Q.

2. $D=\{a, i,o,u\}$ and set $E=\{e, f, g\}$. Set D is _____ to set E.

3. Set $S = (k \mid m \mid n)$

and set T = M n l k

Set S is ____ to set T

4. R={ O ______ set O.



} and set $O = {$



> Set R is _____ to

MATCHING OR EQUIVALENT SETS 1 " Å

- > Equivalent sets are sets with the same number of members but may be of different kind.
- All equal sets are equivalent but not all equivalent sets are equal sets.

EXAMPLE

 $P = \{ a , e , i , o , u \} \ and \ Q = \{ 1 , 2, 3, 4, 5 \}.$ Set P has 5 elements and set Q has 5 elements.

Set P is equivalent to set Q.

Exercise 1e:

- 1. If set P={1, 2, 3, 4, 5, 6, 7}. Find n(P)
 2. Given that D={ a e | 1 o u}. How may
- 2. Given that $D=\{a, e, I, o, u\}$. How many elements are in set D?
- 3. Set $Y = \{h, m, j, h, r, i\}$. Find n(Y).
- 4. If set $W = \{e, f, g, h\}$. What is n(W)?

5.

INTERSECTING SETS " á"

➤ Intersecting sets are sets with common members or elements.

Example:-

Common members = $\{e, a\}$

So set F and set G is intersection sets.

$$F \cap G = \{e, a\}$$

• Common members are written only once.

Example 2.

Set
$$A = \{ d, i, g \}$$
 and set $B = \{ d, on, e \}$
 $A = \{g, i, G\}$
 $B = \{G o, n, e \}$
 $A \cap B = \{ d \}$

Exercise 1f;

- 1. If set $A=\{1, 2, 3, 4, 5\}$ and set $B=\{2, 4, 6, 8\}$. Find $A \cap B$.
- 2. Given that $P=\{a, e, I, o, u\}$ and $Q=\{a, b, c, d\}$. What is $P \cap Q$?
- 3. Set $W=\{ o, p q, r, s \}$ and set $R=\{m, n, o, p \}$. List down all the elements of set $W \cap R$.
- 4. $M=\{b, o, y, s\}$ and $N=\{c, a, m, b, s\}$ List down all the elements of set $M \cap N$.

Finding the number of elements in intersection sets.

Example 1

$$M = \{ a, b, c, d, e \} \text{ and } N = \{ a, e, i, o, u \}. \text{ Find n } (M \cap N)$$

$$M = \{ a, b, c, d, e \}$$

$$N = \{ a, e, i, o, u \}$$

$$M \cap N = \{ a, e \}$$

$$n (M \cap N) = 2$$

Example 2

Set
$$A = \{ d, i, g \}$$
 and set $B = \{ d, o, n, e \}$. How many members are in set $A \cap B$
$$A = \{ g, i, G \}$$

$$B = \{ d, o, n, e \}$$

$$A \cap B = \{ d, o, n, e \}$$

There is one member in set $A \cap B$.

OR n(AáB)= 1.

Exercise 1g;

- 1. If set $A = \{1, 2, 3, 4, 5\}$ and set $B = \{2, 4, 6, 8\}$. Find $n(A \cap B)$.
- 2. Given that $P=\{a, e, I, o, u\}$ and $Q=\{a, b, c, d\}$. What is $n(P \cap Q)$?
- 3. Set $W=\{o, p, q, r, s\}$ and set $R=\{m, n, o, p\}$. How many elements are in $W \cap R$?.
- 4. $M=\{b, o, y, s\}$ and $N=\{c, a, m, b, s\}$ How many elements are in $M \cap N$?.

5.

UNION SET " â"

A Union set is a set with two or more sets put together.

In a union set a member is written once.

Example; 1

Given that
$$W = \{1, 2, 3\}$$
 and set $Z = \{x, y, z\}$. Find $W \cup Z$
Set W Union set $Z = \{1, 2, 3, x, y, z\}$
 $W \cup Z = \{1, 2, 3, x, y, z\}$
Example; 2

Set $F = \{c,a,r,e,s\}$ and $G = \{c,o,n,e,s\}$. List down all the elements of set $F \cup G$ $F = \{\not e, a, r, \not e, \not s'\}$

$$F \cup G = \{c, e, a, r, s, o, n\}$$

Exercise 1 h

- 1. If set $D=\{1, 2, 3, 4, 5\}$ and set $C=\{2, 4, 6, 8\}$. Find $(D\cup C)$.
- 2. Given that $P=\{a, e, I, o, u\}$ and $Q=\{a, b, c, d\}$. What is $(P \cup Q)$?
- 3. Set $S=\{ o, pq, r, s \}$ and set $T=\{m, n, o, p \}$. List down all the elements of set $(S \cup T)$
- 4. $M=\{b, o, y, s\}$ and $N=\{c, a, m, b, s\}$ List down all the elements of set $(M \cup N)$.

5.

Finding the number of elements in a Union set.

Example;

Set
$$F=\{c,a,r,e,s\}$$
 and $G=\{c,o,n,e,s\}$. Find $n(F\cup G)$

$$F=\{\not c,a,r,\not e,\not s'\}$$

$$G=\{\not c,o,n,\not e,\not s'\}$$

$$F\cup G=\{c,e,a,r,s,o,n\}$$

$$n(F\cup G)=7.$$

Exercise 1i

- 1. If set $D=\{1, 2, 3, 4, 5\}$ and set $C=\{2, 4, 6, 8\}$. Find $D\cup C$.
- 2. Given that $P=\{a, e, I, o, u\}$ and $Q=\{a, b, c, d\}$. What is n ($P \cup Q$)?
- 3. Set $W=\{o, pq, r, s\}$ and set $R=\{m, n, o, p\}$. How many elements are in $W \cup R$?
- 4. $M=\{b, o, y, s\}$ and $N=\{c, a, m, b, s\}$ How many members are in $M \cup N$?.

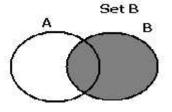
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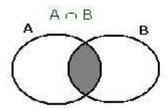
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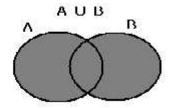
Name the following set symbols:

Shading regions on a Venn diagram

Set A A В



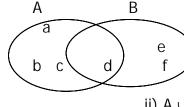




<u>Using Venn diagrams to solve set problems.</u>

Example 1:-

Study the Venn diagram below and answer the questions that follow;



- a) List down all the elements of set A. set $A=\{a, b, c, d\}$
- b) List the members of set B.
- Set $B = \{d, e, f\}$

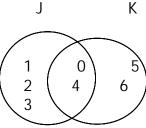
c) Find; i) $A \cap B$.

 $A \cap B = \{d\}$

ii) $A \cup B$. $A \cup B = \{a, b, c, d, e, f\}$

Example 2.

Study the Venn diagram below and use it to answer the questions that follow;



a) Find n(J)

Set $J=\{0, 1, 2, 3, 4\}$

n(J)=5

b) How many members are in set K? Set $K = \{0,4,5,6\}$

There are 4 elements in set K.

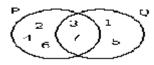
OR; n(K) = 4

- c) $n(J \cap K)$. $J \cap K = \{0,4\}$
- d) List down all the elements in set $J \cup K$. $J \cup K = \{0,1,2,3,4,5,6\}.$

 $n(J \cap K) = 2$

Exercise 1J

Study the Venn diagram below and answer the questions that follow;



- a) List down all the elements of set P.
- b) Find PUQ
- c) How many members are in set P∩Q
- d) What is n(Q)?

FILLING IN VENN DIAGRAMS

Example 1:-

Given that Set $A = \{ a, e, i, o, u \}$ and set $B = \{ a, b, c, d, \}$

a) Fill in the Venn diagram below using set A and B

Note; Start with the intersection part. В

Α

- b) How many members are in set A?
 - c), Find;

е b a iou С

i) n(B)

ii) $A \cap B$

ii) n(A U B)

Exercise 1K

- 1. If set $M = \{ 1, 2, 3, 4, 5 \}$ and set $N = \{ 0, 2, 4 \}$
- a) Fill in the Venn diagram using set M and N.

M Ν

- b) Find; n (M).
- c) How many elements are in set N?
- d) $n(M \cap N)$
- e) $n(M \cup N)$

TOPICAL TEST 1:

- 1. Set $F = \{flies as big as a cow\}$. Name set F.
- 2. Draw a set of 4 trees.

Q

3. Shade P∪Q in the diagram below:

4.

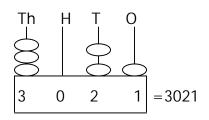
9. Given that set Q={a, e, I, o, u} and set R={a, b, c, d, e}.a. Complete the Venn diagram below using set Q and R above Q R

NUMERATION SYSTEMS AND PLACE VALUES.

REPRESENTING NUMBERS ON THE ABACUS.

Example:

Show 3021 on the abacus.



Exercises 2 d

Show the following numbers on the abacus. a) 656 b) 3601 c)210 d)5372 e) 7521 f) 426.

FINDING THE TOTAL VALUES OF NUMBERS.

Example 1:-

Find the total value of 4 in the number:

H T O
1 4 8
$$\downarrow$$
 4 tens = 4 x 10
= 40.

Exercise 2e:

- 1. Calculate the value of the underlined digits:
- a) 5642 b) 6932 c) 1064 d) 978 e) 2108 f) 5497

ADDITION OF VALUES;

Example:-

7 tens + 5ones = Let us workout the following :
=
$$(7 \times 10) + (5 \times 1)$$
 | 1. | 2tens plus 2 ones. | 2) 5hundreds +4 tens

$$= 70 + 5$$

= 75.

Exercise 2f

Let us workout the following:

- 3. 6thousands +6hundreds.
- 4. 8hundreds +6tens +7ones.
- Sthousands and 3tens.

Subtraction of Values

Example

1. 5 tens – 3tens =
=
$$(5 \times 10) - (3 \times 10)$$

= $50 - 30$
= 20 .

EXERCISE 2q

Workout the following:

 $= (5 \times 10) - (3 \times 10) \mid 1$. Attens -2 tens. 2) 3 hundreds minus 1 hundred 3. 8thousands -7thousands.

Multipulication of values

Example

Exercise 2h

Workout the following;

= (4 x 10) x (6 x 1) 1. 2tens x 3ones 2) 4hundreds x 4ones. 4) 5thousands x3 8tens x2

WRITING IN WORDS.

Exercise 2i.

Example:-

Write 6427 in words.

TH H units 6 4 2 7

6000 = Six thousand.

400= Four hundred.

27= Twenty-seven.

 \therefore 6427 = Six thousand four hundred twenty seven.

Writing in figures

Example:-

Write two thousand four hundred ten in figures.

Two thousand = 2000

Four hundred = 400

Ten = + 102410

Exercise 2j

Exercise 2K

Write the following in words

Write the following in figures.

1. Three thousand, twenty two.

a) 435 b) 8648 c)2001 d)6500 e)4095 f)8103

- 2. Five hundred five.
- 3.Two thousand, two hundred two.

Write the following in expanded form

1. 275 2) 7856 3)1002 4)5471 5)8509

- 4. Six thousand, four hundred ninety.
- 5. Nine thousand nineteen.

WRITING NUMBERS IN EXPANDED FORM

Example:-

Expand 312

$$312 = (3 \text{ hundreds}) + (1 \text{ tens}) + (2 \text{ Ones})$$

= $(3 \times 100) + (1 \times 10) + (2 \times 1)$

Method II

H T O 3 1 2

2x1 = 2 1x10 = 103x100 = 300

Note: Write from down upwards.

$$312 = 300 + 10 + 2$$

2. Expand 5748 using values

Example:-

1. Which number is shown by this expansion; 7000 + 40 + 8?

Which number has been expanded to give;

$$(4x1000) + (7x100) + (5x10) + (6x1)?$$

$$4x 1000 = \begin{cases} 4 & 0 & 0 & 0 \\ 7x100 & = & 7 & 0 & 0 \\ 5x10 & = & \sqrt{5} & 0 \\ 6x1 & = & \sqrt{4} & \sqrt{5} & 6 \end{cases}$$

Exercise 2L

What number has been expanded to give:

ROMAN NUMERALS

Major Roman numerals are:-

The Hindu – Arabic numerals are ;0, 1, 2, 3, 4, 5, 6, 7, 8 and 9

• Roman numerals got by adding 1 are; 2 and 3

$$2 = 1 + 1$$
 $3 = 1 + 1 + 1$
= $1 + 1$ = $1 + 1$ = 11

Roman numerals got by adding to 5 are 6, 7, 8

• The Roman numeral got by subtracting are;. 4, 9, 40

$$4=5-1$$
 $9=10-1$
=V-I =IV =IX

NOTE;

Roman numerals which can never be repeated are V, L

• Roman numerals are not repeated more than three times.

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Expressing Hindu Arabic numeral as Roman Numerals

Example: (Expand and change to Roman numerals.)

1.
$$19 = 10 + 9 | \text{s/w}$$
 2. $36 = 30 + 6$
 $= | X + IX | 10 | = | XXX + VI |$
 $= | XIX | \frac{+9}{19} | = | XXXVI |$

Exercise 2m

Write the following as Roman numerals:

- 1. a) 8 b) 15 c) 24 d) 39 e) 12 f) 28
- 2. Ann is 14 years old. Write her age in Roman numerals.
- 3. John has 26 cows. How many cows does he have in Roman numerals?

Changing Roman numerals to Hindu Arabic numerals

Note; Expand and change to Hindu Arabic numerals

Example: -

$$XIX = X + IX$$

= 10 + 9
= 19 | S/W | Or $XIX =$
 $X = 10$
 $IX = +9$
= 19 | Ans.

Exercise 2n

Change the following to Hindu-Arabic numerals.

- 1. a) XXII b) XIV c) XXXV d)XVIII
- 2. Jane is XI years old. Write her age in Hindu-Arabic numerals.
- 3. Henry weighs XXXVI kilograms. Find his age in Hindu-Arabic numerals.

TOPICAL REVISION.

- 1. a) Write ;Three thousand three in figures. b) Write 24 in Roman numerals.
- 2. Complete; 2436=_thousands_hundreds_tens _ones.
- 3. What number has been expanded to give; 4000+400+4?
- 4. John is XXXVII years old. Write his age in Hindu-Arabic Numerals.
- 5. Workout; a) 4tens and 3ones. b) 6hundreds -4hundreds. c) 2thousands x3
- 6. Given the number; 6390.
 - a) Write the place value of 3 in the number above.
 - b) Write the digit that is in the place of tens in the number above.
 - c) Calculate the value of 6 in the number above.
 - d) Express the above number in expanded notation.
 - e) Write the above number in words.

OPERATIONS ON NUMBERS;

ADDITION;

ADDI WITHOUT CARRYING.

Example: -

Exercise 3a

Workout the following;

WORD PROBLEMS INVOLVING ADDITION WITHOUT REGROUPING.

KEY WORDS;

Add, sum, total, increase, altogether etc

Exercise 3b.

- 1) Add 342 + 56 $\stackrel{2}{=}$ Increase 4230 by 432 $\stackrel{3}{=}$) Find the sum of 65 apples and 33 apples.
- 4) Nancy had 224 cows. Her father gave her 33 more cows. How many cows did she have altogether?
- 5) What number is 4 more than 96?

<u>ADDITION OF 2-DIGIT NUMBERS WITH CARRYING OR RE-GROUPING.</u> Example:-

Exercise 3c

Workout the following;

ADDITION OF 3-DIGIT NUMBERS WITH CARRYING OR RE-GROUPING.

Example:-

Exercise 3c

Workout the following;

7. In Kabotia Junior School, the

ADDITION OF 4-DIGIT NUMBERS WITH CARRYING OR RE-GROUPING.

Example:-

2+9=11so write 1under ones and carry 1 to tens. 1+4+5=10 so write 0 under tens and carry 1 to hundreds.

622

Exercise 3f Workout the following;

- 1. What is the difference between 543 and 2.
- 31? 2) Decrease 5489 by 213. 3) What is 83 take away 40? 4. Sarah had 25 apples. If she ate 20apples.

SUBTRACTION

SUBTRACTION WITHOUT BORROWING OR RE-GROUPING.

Example:-

1.45 2) 5 9 3) 5 7 2 4) 3 2 3 5) 2 3 5 4 6) 8 5 9 2 -3 -24 -60 -222 -334 -745 3 42 3 5 612 1 C1 2 3 2 0 1 1 4 2

Exercise 3 e

Workout the following;

1. 76 2)54 3)896 4) 8964 5)2324 6)7290 7)567 8)9522 9)6238 -2 -34 - 55 -854 -1111 -230 -333 -7310 -222

WORD PROBLEMS

Key words

Decrease, minus, remove, reduce, subtract, difference, take away, Less than.

EXAMPLE:

1. Subtract: 24 from 648.

6 4 8

-2 4

6 22

What number is 15 less than 79?

-15

6 4

-2 4

-2 4

-3 5

-4 5

-4 5

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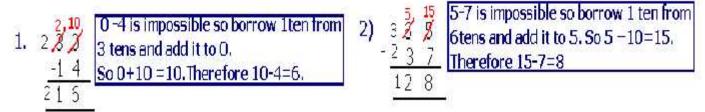
SUBTRACTION OF 2 DIGIT NUMBERS WITH BORROWING:

Example:-

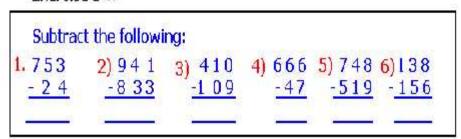


SUBTRACTION OF 3- DIGIT NUMBERS WITH BORROWING:

Example:-



Exercise 3 h



SUBTRACTION OF 4- DIGIT NUMBERS WITH BORROWING:

Example 1:

MULTIPLICATION Multiplication is repeated addition.

Multiplying 4 by 1 digit numbers.

Examples

P.3 MATHEMATICS LESSON NOTES TERM TWO

DIVISION;

SIMPLE DIVISION WITHOUT A REMAINDER

Example:-

a) $6 \div 6 = 1$

b) $8 \div 2 = 4$

Exercise 5a

Using long division

Example:-

1. 3 9 3 × 3 = 9

2)
$$2 \overline{\smash{\big)}\,2}$$
 $2 \overline{\smash{\big)}\,2}$ $1 \times 2 = \underline{2}$

Exercise 5b

Word problems.

Key words.

Share, divide.

Example;

- 1. Share 8 books among 4 pupils. How many does each child get? 8books $\div 4 = 2$ books.
 - 2. How many groups of three are in 6?

Division involving 2-digit numbers.

Example 1

$$1 \times 2 = 2 \downarrow$$

$$1 \times 2 = 2 \downarrow$$

$$1 \times 2 = 2 \downarrow$$

$$2 \downarrow$$

$$0 \uparrow$$

Division involving 3-digit numbers. Example 1

$$\begin{array}{c|c}
1 & 1 & 2 \\
2 & 2 & 2 & 4 \\
1 & x & 2 & 2 & 4 \\
1 & x & 2 & 2 & 4 \\
1 & x & 2 & 2 & 4 \\
2 & 2 & 2 & 4 \\
2 & 2 & 4 & 2 \\
2 & 2 & 4 & 4 \\
0 & 0 & 0
\end{array}$$

SIMPLE DIVISION WITH A REMAINDER Examples

a)
$$5 \div 2 = 2 r 1$$

b)
$$7 \div 3 = 2 r 1$$

Division with a remainder using long division.

Examples

$$\begin{array}{ccc}
 & 1 & 1 & & & 1 & 2 & 1 \\
1 & \times & = & \frac{2}{1} & & & & 1 & 2r \\
1 & \times & = & \frac{2}{1} & & & 1 & 2r \\
2 & \times & & & & & & & & \\
2 & \times & & & & & & & \\
2 & \times & & & & & & \\
2 & \times & & & & & & \\
\end{array}$$

Exercise. 6c page 73. WORD PROBLEMS

Example.

Share 23 sweets between 2 boys.

DIVISION INVOLVING COMPLEX PROBLEMS.

Examples:

1.
$$0.6$$
 $2.$
 0.5
 $0.3 = 0.$
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Exercise. 6b page 73, Ex 6d pg74, Ex 6f pg75.

Word problems.

Example;

Share 36 pens among 9 pupils.

Exercise. 6g page 76-77.

Division through factor 10

Example

$$30 \div 10 = 3\varnothing \div 1\varnothing.$$

$$= 3 \div 1$$

$$= 3 \text{ Ans.}$$

Types of numbers

1. Whole numbers.

Whole numbers start from 0..... e.g. 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11. . .

2. Counting numbers.

Counting numbers start from 1...e.g. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 . . . Exercise:

3. **EVEN NUMBERS**;

> An even number is a number that when divided by 2 leave a remainder as 0. e.g. 0,2,4,6,8,,10,12.....

Key words used are; between, up to, from.

Example

Even numbers from 0 up to 20. {0,2,4,6,8,10,12,14,16,18,20}

Exercise:

4. ODD NUMBERS;

These are numbers which when divided by 2 leaves a remainder as 1.

E.g. 1, 3, 5, 7, 9, 11 . . .

Exercise;

COMPLETING SEQUENCES.

Example:

Exercise;

MULTIPLES:

A multiple is a product of two numbers.

Multiples of a number when divided by that number leave no remainder.

key words used are:

Less than, between, up to and from

e.g. M_2 less than 10.

$$2x1 = 2$$

 $2x2 = 4$

$$2x2 = 4$$

$$2x3 = 6$$

 $2x4 = 8$

$$2x4 = (6)$$

 $2x5 = 10$

$$M_{2}=\{2, 4, 6, 8\}$$

Exercise:

FACTORS;

Exercise;

TYPES OF FRACTIONS

Proper fractions, Improper fractions, mixed fractions, Equivalent fractions, Decimal fractions

Naming the shaded and unshaded fractions

Example: -

a)



Shaded = $\frac{1}{2}$ Un shaded = $\frac{1}{2}$

Exercise 1;

Write the shaded and unshaded parts.

Exercise 2;

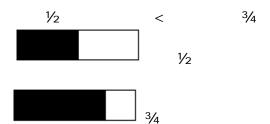
Draw and shade the following: -

- 1. 1/4,
- 2. ½,
- 3. 3/4.

Comparing fractions:-

Using greater than (>) less than (<) and is equal to " ="

½
 ½
 ½
 ½



Exercise;

Fractions of wholes.

Example:-

$$\frac{1}{2}$$
 of 6 = $\frac{1}{2}$ x 6
= $(1x6) \div 2$
= $6 \div 2$
= 3

Exercise;

ADDITION OF FRACTIONS

Addition with the same denominators

Example:-

a)
$$\frac{1}{3} + \frac{1}{3} = \frac{1+1}{3}$$
 b) $\frac{3}{8} + \frac{2}{8} = \frac{3+2}{8}$ c) $\frac{2}{5} + \frac{3}{5} = \frac{2+3}{5}$ $= \frac{5}{8}$ $= \frac{5}{8}$ $= \frac{5}{8}$

WORD PROBLEMS.

1. Ann ate $\frac{2}{2}$ of a cake and Mercy ate $\frac{1}{2}$ of the same cake.

.

What fraction of the cake did two girls eat?

Ann Mary

$$\frac{2}{5}$$
 + $\frac{1}{5}$ = $\frac{2+1}{5}$ = $\frac{3}{5}$ of a cake.

Exercise;

Subtraction of fractions

a)
$$\frac{4-1}{5} = \frac{4-1}{5}$$
 b) $\frac{9-5}{8} = \frac{9-5}{8}$ $= \frac{4}{8}$

WORD PROBLEMS.

David had $\frac{7}{9}$ of a cake, he ate $\frac{5}{9}$ of it. What fraction of the cake remained?

He had - ate = remained.

$$\frac{7}{9}$$
 - $\frac{5}{9}$ = $\frac{7-5}{9}$ = $\frac{2}{9}$

Exercise;

Subtraction of fractions from one whole (Pr. Sch. MTC. Bk.3 pg. 104)

24

a)
$$1 - \frac{3}{4} = \frac{4}{4} - \frac{3}{4} = \frac{4-3}{4} = \frac{1}{4}$$

$$1 - \frac{3}{4} = \frac{4}{4} - \frac{3}{4} = \frac{4-3}{4} = \frac{1}{4}$$
 b) $1 - \frac{1}{2} = \frac{2-1}{2} = \frac{2-1}{2} = \frac{1}{2}$

Exercise;

WORD PROBLEMS.

Mary had a mangoe, she ate 34 of it. What fraction was left?

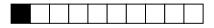
$$1 - \frac{3}{4} = \frac{4}{4} - \frac{3}{4} = \frac{4-3}{4} = \frac{1}{4}$$

She remained with 1/4

Exercise;

DECIMAL FRACTIONS

0



$$\frac{1}{10} = 0.1$$

Exercise;

Addition of decimal fractions.

Example;
$$4 + 0.5 = 0.4$$

 $+ 0.5$
 $- 0.9$ Ans

Word problems in addition

Deco ate 0. 2 of a cake in the morning and 0. 7 of it in the evening.

What decimal fraction did Deco eat altogether?

Morning 0.2

Evening + 0.7

Total 0.9

.. Deco ate 0. 9 altogether

Exercise:

Subtraction of decimal fractions with borrowing

$$5. 4 - 1. 8 = 5. 4$$

$$- 1. 8$$

$$4. 6 Ans.$$

Word problems on subtraction

Ann bought 2 .8 meters of cloth. She used 1. 5 meters for a skirt.

How many meters of cloth did she have un used?

Ann bought 2. 8 m She used - 1.5 m

Left <u>1.3 m</u> Ans.

Exercise;

ALGEBRA

Collecting like terms.

Adding like terms.

Example 1:

a) 2 cats + 2 goats = 2 cats + 2 goats b) 4 stones + 3 stones = 7 stones.

Example 2

a) a + a + a = 3a

b) e + r + r + e + r = e + e + r + r + r= 2e + 3r

Exercise:

SUBTRACTING LIKE-TERMS.

EXAMPLES.

 $\frac{1}{1}$ 4books – 3books = 1book.

2. 6a - 3a = 3a

3. X-y = x-y

Exercise;

More about like terms

Example;

1. 2x + 3y - x + 2y 2x + 3y + 2y 2x + 3y + 2y2x + 5y

Exercise;

EQUATIONS

Both sides must balance / equal

Finding the unknown by subtraction.

2.
$$h + 2 = 6$$

 $h + 2 - 2 = 6 - 2$
 $h = 4$

Word problems.

<u>Example</u>

1. Kato had hens in his farm. He was given 10 more hens. He now has 15 hens. How many hens had Kato at first?

Let the number of hens he had at first be h

$$\begin{array}{ll} h + 10 & = 15 \\ h + 10 - 10 = 15 - 10 \\ h & = 5 \end{array}$$

:. Kato had 5 hens at first.

Finding the unknown by addition.

1.
$$\Box$$
 -4 = 9 \Box -4+4=9+4 \Box = 13

2. W
$$-3 = 6$$

W $-3+3 = 6+3$
W $= 9$

Word problems.

1. Father had books in his bag. He gave me 5 books and he remained with 7 books. How many books

did he have at first?

Let the number of books be b

$$b-5 = 7$$
 (an equation)

$$b - 5 + 5 = 7 + 5$$

∴ My father had 12 books at first.

Finding the unknown by dividing.

1.
$$\square$$
 X 5 = 10

2.
$$P X2 = 8$$

 $P = 8 \div 2$
 $P = 4$

Word problems.

1. When 9 multiply a number the result is 63. What is the number?

$$y \times 9 = 63$$

 $y \times 9 \div 9 = 63 \div 9$
 $Y = 7$

∴ The number is 7.

Finding the unknown by multiplication.

2.
$$g \div 3 = 6$$

$$g = 6X3$$

 $g = 18$

Word problems.

2. Adyebo had apples in the basket. He divided them equally between his 2 children. Each child got 4 apples. How many apples had Adyebo at first? Let the number of apples be k.

$$W \div 2 = 4$$

$$W \div 2 \times 2 = 4 \times 2$$

$$W = 8$$

∴ Adyebo had 8 apples at first.

GEOMETRY

SHAPES

PLANE SHAPES

Plane shapes are:-

Squares, rectangles, triangles, kite, circles, oval, semi-circle, parallelogram Trapezium, Rhombus and other polygons with more than 4 sides.

POLYGONS

A polygon is any figure that is closed and has sides.

Names of polygons

A triangle – Has 3 sides.
 Examples;



2 A QUADRILATERAL.

The 4-sided polygon is called a quadrilateral.

Types of quadrilaterals

- a) Square
- All the sides are equal.
- All the angles are equal.
- Opposite sides are parallel.

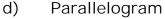


- Opposite sides are equal and parallel.

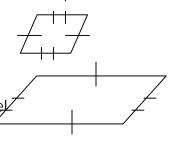




- All sides are equal.
- Opposite sides are parallel.
- Opposite angles are equal.



- Opposite sides are equal and parallel



e) Trapezium



f) A kite



SOLID SHAPES

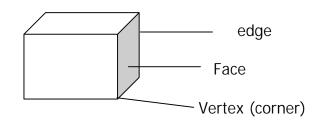
- A cube Have all sides equal.
- A cuboidHas a rectangular face.





Naming parts of solid figures.

A CUBOID / A CUBE



- Have 6 faces.
- Have 8 vertices.
- Have 12 edges.
- 3. A cone



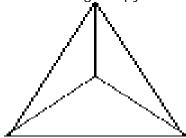
4. Cylinder



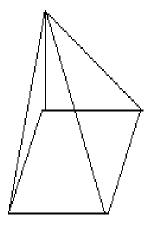
5. Oval



6. Triangular pyramid



8. Rectangular pyramid



TERM III

GRAPHS AND INTERPRETATION OF INFORMATION

Types of graphs.

- 1. Column graphs and bar graphs.
- 2. Picture / pictographs.

Picture / pictographs.

Example

1. If * shows 2 stars. How many stars will * * * * * show?

* = 2 stars ***** = 5 x 2 stars = 10 stars. <u>Exercise</u>;

1. If * shows 4 stars. How many picture stars will show 12 stars?

4 stars = *

12 stars = $12 \div 4$ picture stars

= 3 picture stars.

Exercise;

USING A PICTURE GRAPH.

The table below shows the number of flowers picked by six girls. Study it and answer the questions that follow;

<u>NAME</u>	NUMBER OF FLOWERS.
JANE	
JULIET	
JALIA	
JINELLE	
JACKLYNE	PPPPP
JASPA	

QUESTIONS.

1.

- 1. How many more books did P.4 get than P.3?
- 2. How many books did P.1 and P.2 get altogether?
- 3. Which classes got the same number of books?
- 4. How many more books did P.5 get than P.6?
- 6. Calculate the total number of books that were given to all the classes.

MEASUREMENT (MEASURES)

LENGTH

- 1. Length is the distance between two points.
- 2. The standard Unit used to measure length is Metre.
- 3. Other units include; Kilometre (Km), Hectometre (Hm), Decametre(Dm), metre(m), decimeter(dm), centimeter(cm), millimeter(mm)

Km	Hm	Dm	m	dm	cm	mm
1	0	0	0	0	0	0
	1	0	0	0	0	0
		1	0	0	0	0
			1	0	0	0
				1	0	0
					1	0

1Km = 1000m1M = 100cm

Measuring the length of given objects and writing them in meters and centimeters.

100 cm = 1 metre

- 1. 123 cm = 1 m 23 cm
- 2. 546cm = __ m __ cm
- 3. $754 \text{ cm} = \underline{\text{m}} \text{ m} \underline{\text{cm}}$
- 4. $265 \text{ cm} = \underline{\hspace{1cm}} \text{m} \underline{\hspace{1cm}} \text{cm}$

Converting metres (m) to centimeters (cm)

Example:

EXERCISE:

Change the following m to cm

1, 10m 2] 5m 3] 14m] 6m 5] 33m

Converting centimetres (cm) to metres (m)

Example:

300 cm 1.100 cm = 1 m

$$300 \text{ cm} = (300 \div 100) \text{ m}$$

= 3 m

$$1000 \text{ cm} = (1000 \div 100)$$

= 10 m

Exercise; Change the following cm to m

<u>1</u>400cm 2] 200cm 3] 5000cm 4] 7000cm 5] 800cm

Addition of units of length

Example:

EXERCISE12C PG 147

Word problems on addition of units of length

1. Musa is 2 M 15 cm of a sugar cane. Ali ate 3 M 20 cm of a sugar cane. Find the length of sugar cane eaten by Musa and Ali.

$$\begin{array}{cccc} & & M & cm \\ \text{Musa ate} & 2 & 15 \\ \text{Ali ate} & +3 & 20 \\ \text{Altogether} & 5 & 35 \end{array}$$

EXERCISE12d PG 148

Subtraction of units of length

Example:

EXERCISE12E PG 149

Word problems on subtraction of units of length

1. A trader had 19 M 50 cm of cloth. He sold 4 M 10 cm of it. What length of cloth was left?

M cm
A trader had 19 50
Sold <u>- 4 10</u>
Left <u>15 40</u>

EXERCISE12e PG 150

Multiplication of units of length

Example:

Km	m
2	120
Χ	4
8	480

Word Problems on Multiplication of length units.

Example

- 1. Kato's string 3 M long. Find the length incm.
 - a)

- 1 M = 100 cm
- 3 M = 3 X 100
 - = 300 cm

DIVISION OF LENGTH UNITS.

1. Mrs. Kato has 12 M of cloth to be shared among her children. What length will each child get?

$$= 3 M$$

∴ Each child will get 3 M.

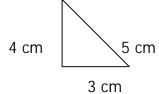
POLYGONS

A polygon is a simple closed sided figure

PERIMETER OF POLYGONS.

Perimeter is the total distance around a given shape / figure or object.

1.



Perimeter =
$$S+S+S$$

= $5cm + 4cm + 3 cm$
= $12 cm$

2.

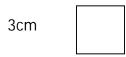
5m

6m

Perimeter =
$$L + W + L + W$$

= $6 m + 5m + 6m + 5m$
= $22 m$

3.



Perimeter=
$$S+S+S+S$$

= $3cm+3cm+3cm+3cm$
= $12 cm$

AREA OF POLYGONS

Finding area by counting squares

1. How many square tiles can be laid on a floor of a given room?



6 Tiles.

Exercise 13a Pg 152

Finding area by multiplication

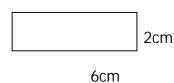
We find area of these figures by multiplying the number of squares across (length) by the squares down wards (width)

2.

Formula = (length x width) square units.

1.		

down



a cross

a cross x down
3 squares x 2 squares
(3 x 2) square units
= 6 square units

$$A = L x w$$

= 6 x 2 cm²
= 12 cm²

Exercise 13d and 13e Pp 155-156

WORD PROBLEMS

1. Length is 5 cm and width is 4 cm

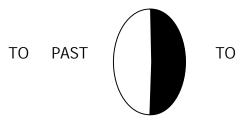
Area = length x width square cm = $5 \times 4 \text{ cm}^2$

= 20 cm²

Exercise 13f Pg 157-158

TIME

- 1. A clock face has two major hands. The hour hand and minute hand. A short hand counts Hours and a long hand counts minutes.
- 2. 60 minutes make 1 hour.
- 3. A half an hour is equal to 30 minutes.
- 4. A quarter an hour is equal to 15 minutes.
- 5. From 1-minute upto 30 minutes we use "past".
- 6. More than 30 minutes we use "to".
- 7. When the minute hand points to 12 we use or read o'clock.
- 8. When the minute hand points to 3 we use or read a quarter past.
- 9. When the minute hand points to 6 we use or read a half past.
- 10. When the minute hand points to 9 we use or read a quarter to.



- a) Shaded part we use minutes 'past'.
- b) Un shaded part we use minutes <u>'to'.</u>

Telling time using o' clock and a half past.

1.



It is 3 o'clock.

2.



It is a half past 12 o'clock. OR 30 min past 12 o'clock.

Exercise 11b pp127-130 Telling time using a quarter past.

Example 1



It is a quarter past 5 o'clock.

OR 15 min past 5 o'clock

Exercise 11e p 131
Telling time using "a quarter to "

Example



It is a quarter to 2 o'clock.

OR it is 15 min to 2 o'clock.

Exercise 11g p132

CONVERSIONS.

Changing hours to minutes.

- 1. Change 9 hours to minutes. 1 hour = 60 minutes
 - 9 hours = 9×60 minutes

= 540 minutes.

Changing minutes to hours.

1. 60 minutes = 1 hr $420 \text{ minutes} = 420 \div 60 \text{ hrs.}$ = 7 hrs.

Addition and subtraction of time units.

1. Hrs Min 3 10 + <u>6 40</u> 9 50 Ans.

2. Hrs Min 4 45 - 2 30 2 15 Word problems involving addition and subtraction of time units.

<u>CALENDER</u> <u>January 2001</u>

SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Questions.

- 1. Write the first day of the month.
- 2. Write the last day of the week.
- 3. How many Sundays are in the month?
- 4. How many Fridays are in the month?

Days of the week are Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and Sunday.

Questions:

- 1. What is the first day of the week?
- 2. What is the third day of the week?
- 3. What is the last day of the week?

CONVERSIONS

Changing weeks to days.

1 week has 7 days.
 3 weeks have 3 x 7 days.

= 21 days. .

2. 1 week has 7 days.

5 weeks have 5 x 7 days.

= 35 days.

Word problems

Changing days to weeks.

1. 7 days = 1 week

 $21 \text{ days} = 21 \div 7 \text{ weeks}$ = 3 weeks 2. 7 days = 1 week

 $42 \text{ days} = 42 \div 7 \text{ weeks}$ = 6 weeks.

Word problems

Addition and subtraction of weeks and days.

Example

	_			
Wks	Days	2.	wks	days
5	2		7	5
+3	4		- <u>2</u>	3
_ 8	<u>6</u>		<u>5</u>	2

Word problems involving addition and subtraction.

MONTHS OF THE YEAR

January has 31 days.

February has 28 days in ordinary year and 29 days in a leap year.

March has 31 days.

April has 30 days.

May has 31 days.

June has 30 days.

July has 31 days.

August has 31 days.

September has 30 days.

October has 31 days.

November has 30 days

December has 31 days.

4 weeks make a month.

12 months make a year.

52 weeks make a year.

365 days make a year but leap year has 366 days.

Changing years to months.

- 1. 1 year has 12 months
 - 3 years have 3 x 12 months

= 36 months

2. 1 year has 12 months

5 years have 5 x 12 months

= 60 months

Changing months to years.

1. 12 months = 1 year

24 months = $24 \div 12$ years

= 2 years.

Addition and subtraction of years and months

Examples

.1

yrs	months.
3	4
+2	<u>5</u>
5	9

2.

yrs	months
8	7
<u>-5</u>	4
3	3

Word problems

Finding the age.

1. A mother was born in 1978 and got her first child in the year 2001. How old was she when she got a baby?

She got a baby in 2001

She was born in <u>– 1978</u>

She was 23 years old.

CAPACITY

Capacity is the measurement of liquids. Measuring liquids.

1. Comparing containers in litres.

One 20 litre jerry can = two ten litre jerry canes

- 2. One 20 litre jerry can = four 5 litre jerry canes
- 3. 2 tumpeco mugs = 1 litre
- 4. How many ½ litres make 1 litre?

CONVERSIONS

ΚI	HI	DI	I	dl	cl	ml
1	0	0	0	0	0	0
	1	0	0	0	0	0
		1	0	0	0	0
			1	0	0	0
				1	0	0
					1	0

1I =1000ml

Converting litres to millitres

1 litre = 1000 ml 3 litres = 3 x 1000 ml = 3000 ml

Converting millitres to litres

1000ml = 1 litre 4000ml = (4000 ÷ 1000) litre = 4 litres

Addition and subtraction of capacity units.

1. 150 litres + 20 litres 170 litres 2. L ml 8 700 -5 400 3 300

MASS

The basic unit used is Kg

Converting Kg to g.

Kg	Hg	Dg	g	dg	cg	mg
1	0	0	0	0	0	0
	1	0	0	0	0	0
		1	0	0	0	0
			1	0	0	0
				1	0	0
					1	0

1Kg = 1000g

6Kg; 1Kg = 1000g

> 6kg = 6x1000=6000g

Converting g to Kg.

E.g 5000g

1000g = 1kg

 $5000q = (5000 \div 1000)kg$

 $=5 \div 1$

=5Kg.

Addition of mass in Kg and g

Exercise 15c Pg 171

Word problems on addition of weight.

Kato weighs 17 Kg 280 gm. His sister weighs 20 Kg 400 gm. Find their total weight. 1.

gm

280

37

680

Kg Kato weighs 17 His sister weighs + 20 400 Altogether they weigh

Exercise 15d Pg 172

Subtraction of weight in Kg and g

Kg g 6 450 - <u>2 300</u> 4 150

Exercise 15e Pg 173

Word problems on subtraction of weight.

Ann had 5 Kg 750 gm of salt. She gave 3Kg 250 to her mother. How much salt did she remain with?

	Kg	gm
Ann had	5	750
Gave mother	- <u>3</u>	250
She remained with	2	500

Exercise 15f Pg 174

MONEY

- 1. Money is used as an exchange.
- 2. In Uganda we use coins notes.
- 3. Different currencies used in Uganda are:
- a) Coins 500/-, 200/-, 100/-, 50/-, 5/-, 10cts and 5 cts.
- b) Notes 50000/-, 20000/-, 10000/-, 5000/- , 1000/-.

Finding how many small coins make a bigger shilling coin

How many shs. 100 coins make a five hundred shilling coin?

Shs. $500 \div 100 = 5$

Five. 100shilling coins make a. 500shilling coin.

Finding how many small shilling notes make a bigger shilling note

How many shs. 1000 notes make. 5000shilling?

Shs. $5000 \div 1000 = 5$

Five shs. 1000 notes make shs. 5000 note.

ADDITION OF MONEY

Sh 2000 +300 2300

Exercise 16a Pg 177

Word problems on addition of money

I had 500 shillings. My father gave me 200 shillings more. How much money do I have now?

I had shs. 500 Father gave me shs. + 200 Now I have shs. 700

Exercise 16c Pg 178

SUBTRACTION OF MONEY

SHS 450

<u>- 200</u> 200

Exercise 16d Pg 179

Word problems on subtraction of money

My sister had shs. 7500. She gave me shs. 1400. How much money remained with her?

My sister had shs. 7500. She gave me shs.- 1400 She remained with shs.6100

Exercise 16f Pg 180

Multiplication of money

1. One cup costs shs. 500 3 similar cups cost shs. 500 x 3 = shs 1500

Exercise 16j Pg 185

Division of money

1. 4 boys shared shs. 2400. How much did each get?

1 boy got shs. 2400 \div 4

= shs. 600

∴ Each boy got shs. 600

Exercise 16k Pg 187

SHOPPING LIST.

1. Mr. Yiga went to a shop and bought;

2 packets of milk at shs. 800

A packet of tea leaves at shs. 500

1 Kg of sugar at shs. 1500

A pencil at shs 200

- a) How much will he pay for 5 Kg of sugar?
- b) How much will Tom pay for one packet of milk?
 - b) How much more money did he pay for tea leaves than a pencil?
 - c) How much money did he pay for all the items?
- d) If he went to the shop with shs .5000, find the balance that he remained with after paying for all the items listed above.

Exercise 16i Pg 184

2. SHOPPING LIST

Musa went to the market and bought the following;

- 2 kg of meat at shs 1000@.
- 1 kg of rice at shs 1000@.

2kg of posho at shs 500 @.

Item	Quantity/number of items	Price for each	Amount
meat	2 kg	Shs 4000	Shs 8000
rice	1 kg	Shs 3000	Shs 3000
posho	2 kg	Shs1500	Shs3000

Total =Shs14000

Exercise 16h Pp 183