P.3 TERM TWO MATHEMATICS LESSON NOTES

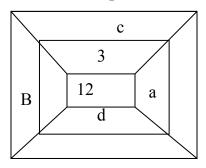
TOPIC NUMBER PATTERNS AND SEQUENCES

Period 1

Content

2nd Finding the missing numbers

1. Examples:



Find the value of a and c

a+7=12

a=12-7

a=5

c+3=12

c = 12 - 3

c=9

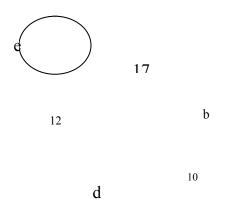
TRIAL NUMBERS

A. Find the value of

b ----d.....

Exercise

Find the missing numbers



e

2.

b

c

3

15

7

a

Ref pg: 81

Period 3 and 4

Find the missing numbers

Example

+2=9

(2) x+4=5

$$x=5-4$$

$$x=1$$

Trial numbers

Exercise

Find the missing numbers

$$x+5=10$$

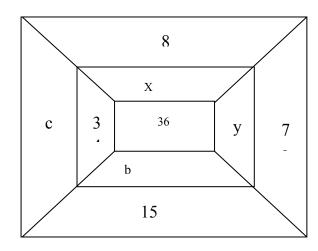
3.

+5=12

$$m+6=17$$

PERIOD 5AND 6

CONTENT



$$X=25-8$$

$$X=17$$

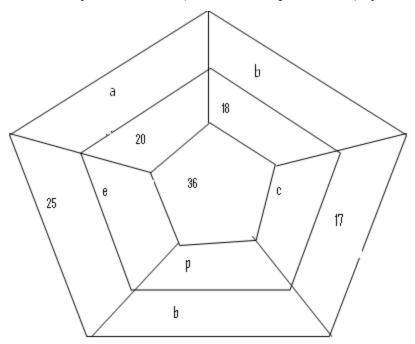
$$Y = 18$$

TRIAL NUMBER

Find the value of:

a.....

d exercise



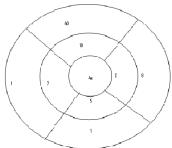
Find	the	valu	e of
TIIIU	uic	varu	ic or

a	b	c	d
			ref:pg81

Period 7&8

Content

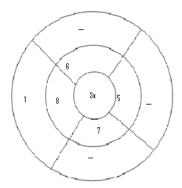
Finding missing numbers



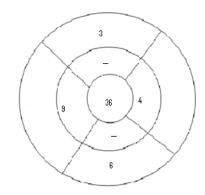
Trial numbers

Exercise: find the missing numbers in the wheel

1.



2.



Ref: mk ppbk3pg:82

Work2: period 9&10.pg84

Finding the missing number

3x4=12

3x4=12

 $3x \square = 12$

Solution

 $3 \div 3x \square = 12 \div 3$

=4

Trial numbers

□ X3=9

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Exercise

- i. $2x5 = \square$
- ii. 3x □=15
- iii. $4x \square = 8$
- v. X6=12

Work 3 period 1 pg 84 Counting in twos Example



1 group of 2 = 2

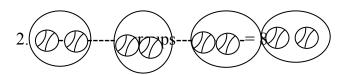


Two groups of 2=4

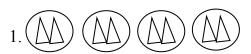
Trial numbers

1. 00 000 000

---- Groups of ---- =6



Exercise



= ----- groups of----=

- 2. 00 00-00 0greys of -----=
- 3. 00---00 QQupQQ--00-0-0=

4. OO OO OO OO OO OO GOO = ------ groups of-----=

Work 3 period 2&3 pg 84

Counting in three and four(s)

1threes =3

2threes = 3+3=6



Example 2

1 fours = 4

2 fours 4+4=8



= Groups of fours =8

Trial numbers

Evercise (000)

1. @@@ @@@ @@@

= ----- group of ----- = ------

2.

= ----- group of ---- = -----

3.

= ----- group of ---- = -----

4. Complete

3, 6, 9,12, ____, ___

5. Complete

0, 4, 8, ____, ___

Work period 4, 5, and 6 Counting in fives and tens

a. 1 fives
$$= 5$$

2 fives
$$= 5+5=10$$

Example2

$$1 \text{ tens} = 10$$

= 2groups of tens = 20++++++

Exercise

- 2.
- = ----- group -----=

- 3. A kello has five figures in one hand, how many figure does she have in 2 hands?
- 4. Complete
- 0, 5, 10,____,20, ____

- 6. Fill in the missing numbers 0, 10, ----, 30, ----, 50, -----

$$0+2=2$$

$$2+2=4$$

$$4+2=6$$

$$6+2=8$$

Work 3 period 7&8pg-89

2. 1,2,3,4, <u>5</u>

Finding more on missing numbers

Trial numbers 0, 3, 6,9, -----

Example:

Exercise

1. 0, 2, 4, 6, 8

Fin the missing numbers

- 1. 0,5,10, -----,20, -----
- 2. 10, 20, 30 -----, ------
- 3. 4, 8, 12, -----
- 4. 1, 3, 5, ----9, ----

Work period 9&10 pg 87 Addition in magic square

7	0	5
b	4	a
3	c	1

NB first find the sum of 3 squares in line

$$7+0+5=12$$

$$a+5+1=12$$

$$a+6=12$$

a=6

b+10+7=12

$$b+17=12$$

b=2

Trial numbers

Find the value of c

Exercise

Find the missing numbers

4	у	5
2	4	6
3	8	X

2	9	a
7	Ъ	3
6	c	d

Work period 1 and 2 pg.89

Multiplying by two, threes, and fours

Example

$$= 2x2=4$$

Counting numbers

whole numbers: these are numbers without fraction

TRIAL NUMBERS

- A. list all the counting numbers less than 10
- B. Write down the whole numbers from 0-9.
- i. Exercise
- ii. i. list down all the whole the numbers less than 15
- iii. list the counting numbers between the 5&10
- iv. set $A = \{$ whole numbers less than 20 $\}$
 - v. $B= \left\{ \text{ all counting numbers less than 5} \right\}$

vi.

- a. Write all members of set A
- b. List down all members of set B
- c. How many members are in set B
- d. Find set AnB
- e. which set has more members

- a. List down all elements of set p
- b. How many elements are in set p
- 4. Set A { all; even numbers between 2 and 10 }
- i. List down all elements of set A
- ii. how many members are in set A

WORK 4 PERIOD 6&7

Odd numbers and even numbers

Odd numbers: are numbers when divided by you getting 1 as a reminder.

Even numbers are numbers which are divisible by two.

0, 2, 4, 6, 8, -----

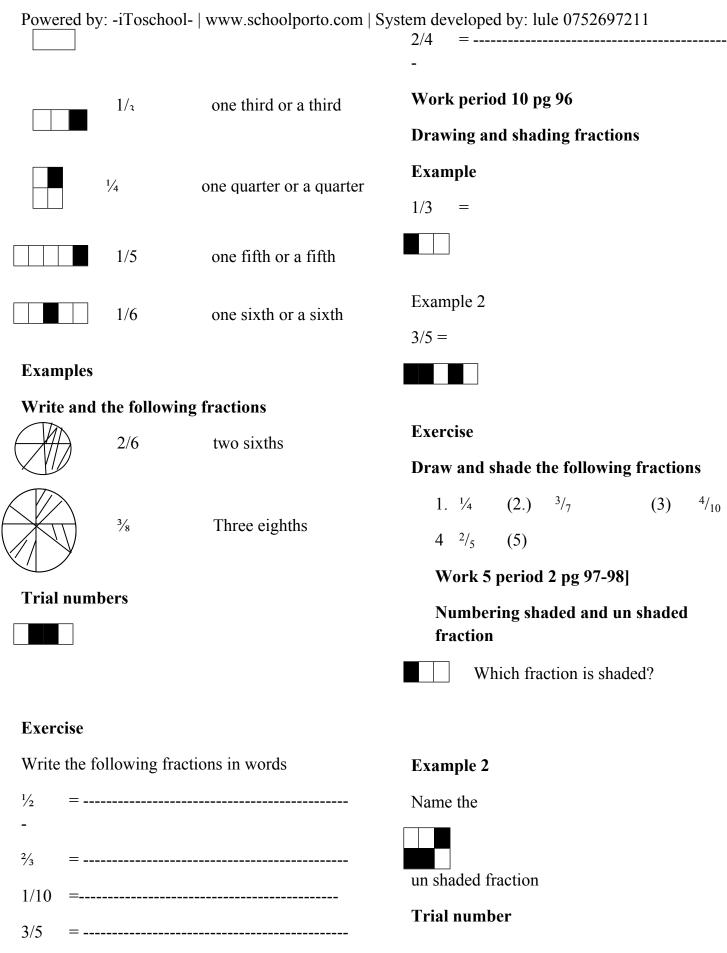
Trial numbers

- a. List down all even numbers from 6-14.
- b. List the odd numbers from 11-21 Exercise
 - 1. List down all the odd numbers between 6 and 13
 - 2. List down all even numbers between_10and 20
 - 3. Set $P = \left\{ \text{all odd numbers less than} \right\}$

TOPIC 2 FRACTIONS WORK4 PERIOD 8-9 PG 95

Naming fractions

Write 1	read one whole or
	awhole
1/2	one half or a half



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Name the un shaded fraction	2/ ₅
2. Name the shaded fraction	4/5
Exercise	1/6
1. Which fraction is un	Wok 5 period 4 pg 99
shaded	Comparing fractions using bigger than, smaller than
Name the un shaded fraction	Example \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
a. Whish fraction is shaded b. Which fraction is un shaded	1/3 is smaller than 1/2
Work 5 period 3 pg 98 Shading fraction s Example Shade $^2/_5$	Exercise Compare the following fraction using bigger and smaller $\frac{1}{2}$ 1 $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{3}$ $\frac{1}{5}$
Trial number	
Shade $^{3}/_{8}$ Exercise $^{1}/_{2}$	Work period 5 pg99-100 Comparing fraction using greater than and Less than Example

 $\frac{1}{2}$ is greater than $\frac{1}{3}$





 $\frac{1}{4}$ is less than $\frac{1}{2}$





Exercise

Compare the following fractions using greater than and less than

Work 5 period 6 comparing fractions using

>< or =

Example



Trial numbers

Exercise

- 1. 2/4 ----- 1/2
- 2. 1/3 ----- 1/4
- 3. ¹/₅ -----¹/₂
- 4. $1/_6$ ----- $1/_{10}$

Work 5 period 7 pg 101-103

Addition of fractions

Examples

1. Add $\frac{2}{6} + \frac{3}{6} = \frac{2+3}{6}$

6

2. Add $\frac{1}{7} + \frac{2}{7} = \underline{1+2} = \frac{3}{7}$

Trial number

I.
$$\frac{2}{10} + \frac{7}{7} =$$

II.
$$\frac{3}{5} + \frac{1}{5} =$$

Exercise

- 1. $\frac{3}{10} + \frac{4}{10} = -----$
- $2. \ ^{4}/_{9} + ^{3}/_{9} = -----$
- 3. $\frac{7}{15} + \frac{6}{15} = -----$
- 4. $9/_{20} + 5/_{20} = -----$
- $5. \ ^{3}/_{8} + ^{4}/_{8} = -----$

Work 5 period 9 and 10 Word problems involving addition in fraction

Find the sum of $\frac{7}{11}$ and $\frac{2}{11}$

- 1. $\frac{7}{11} + \frac{2}{11} = \frac{9}{11}$
- 2. Jane dug $^{3}/_{10}$ on Monday and $^{2}/_{10}$ on Tuesday. What fraction did she dig

Monday
$$= \frac{3}{10}$$

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

$$\frac{3}{10} + \frac{2}{10} = \frac{3+2}{10} = \frac{5}{10}$$

Trial number

Monica ate $^{2}/_{5}$ of her cake in the morning and $^{1}/_{5}$ in the evening. What fraction of the cake did she eat altogether?

Exercise

1. Nyaweeka ate $\frac{3}{15}$ of her sugarcane in the afternoon and

Powered by: -iToschool- | www.schoolporto.com | System developed by: lule 0752697211 $^{10}/_{15}$ in the evening which fraction of the sugarcane did she altogether

- 2. Find the sum of $\frac{7}{12}$ and $\frac{4}{12}$
- 3. I walked ⁴/₉ of the journey and ran ³/₉ of it. What fraction did I cover altogether

Work 6period 1 & 2 pg 105-107

Subtraction of fractions

- a. $\frac{5}{9} = \frac{3}{9} = \frac{5-3}{9} = \frac{2}{9}$
- b. $\frac{6}{10}$ -5/6 = $\frac{6-5}{10}$ = $\frac{1}{10}$

Exercise

- 1. 3/7-2/7=
- $2. \ ^{8}/_{20} ^{5}/_{20} =$
- $3. \frac{10}{1/5} \frac{7}{15} =$
- 4. $\frac{13}{25} \frac{8}{25} =$

Word problems involving subtraction On fraction

Example

1. A boy had 5/6 of the cake. Heat 2/6. What fraction remained $\frac{5}{6} - \frac{2}{6} = \frac{5}{2} - \frac{2}{6} = \frac{3}{6}$

Example 2

A girl had an orange. She gave away 34/4 of it. What fraction remained? $4/4 - 3/4 = \frac{1}{4}$

- 1. John painted $\frac{7}{10}$ of his house on Monday. What fraction of his house has not been painted?
- 2. A bowl was $^{11}/_{12}$ full of sugar. I used 5/12 what fraction remained what is the difference between $\frac{5}{7}$ and $3/_{7}$
- 3. A garden has 8 equal parts. 3parts out of 8 are planted with maize what fraction remained?

Multiplication of fractions

$$\frac{\text{NXN}}{\text{DXD}} = \frac{1 \times 1}{2 \times 2} = \frac{1}{2}$$

$$\frac{1X1}{2X2} = \frac{1}{4}$$

TRIAL NUMBERS

Multiply $\frac{2}{3}$ x $\frac{3}{5}$

Exercise

- 1. $\frac{1}{4} \times \frac{1}{2}$
- 2. $\frac{3}{6}$ x $\frac{2}{6}$
- $3. \frac{1}{3} \times \frac{2}{7}$
- 4. $^{2}/_{7} \times ^{3}/_{6}$

Exercise