

**P.3 TERM TWO MATHEMATICS LESSON NOTES 2014**

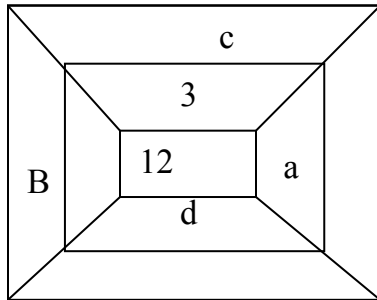
TOPIC NUMBER PATTERNS AND SEQUENCES

Period 1 content

2<sup>nd</sup> 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

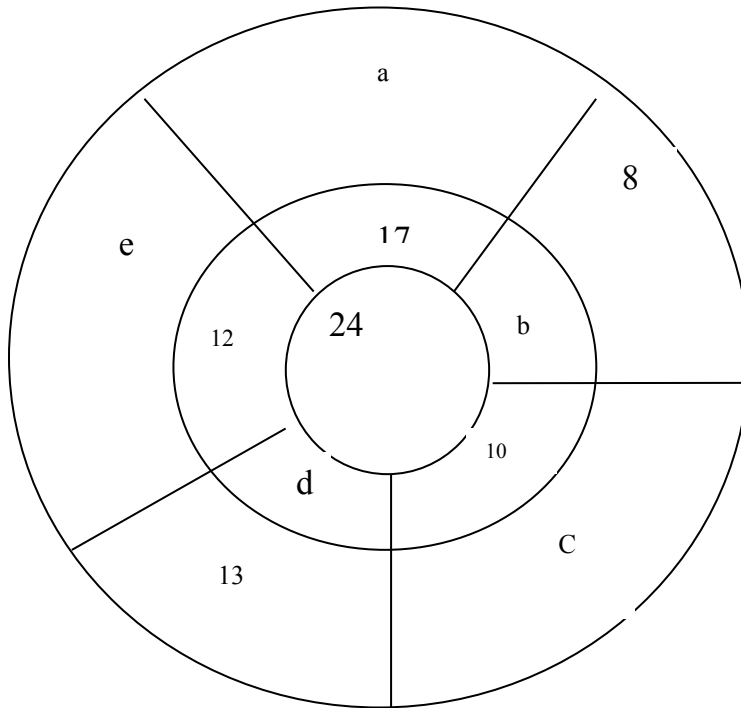
A. Find the value of

b-----

d.....

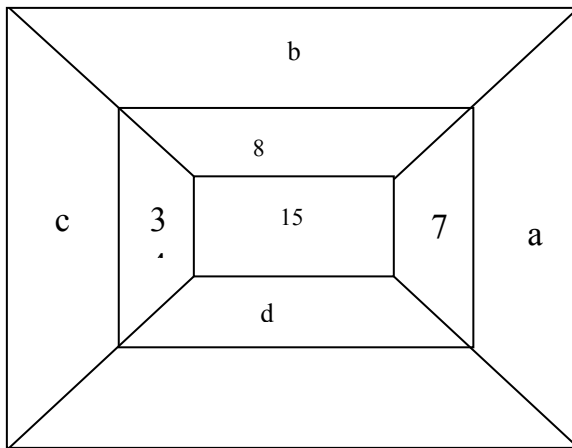
**Exercise**

Find the missing numbers



- a .....
- b .....
- c .....
- d .....
- e .....

2.



- a .....
- b .....
- c .....
- d .....
- e .....

Ref pg: 81

**Find the missing numbers**

**Example**

+2=9

(2) x+4=5

=9-2

x=5- 4

=7

x=1

**Trial numbers**

1.  +6=15

2. Y+7=20

**Exercise**

**Find the missing numbers**

1  +2=5

3.  +9=14

2  +12=18

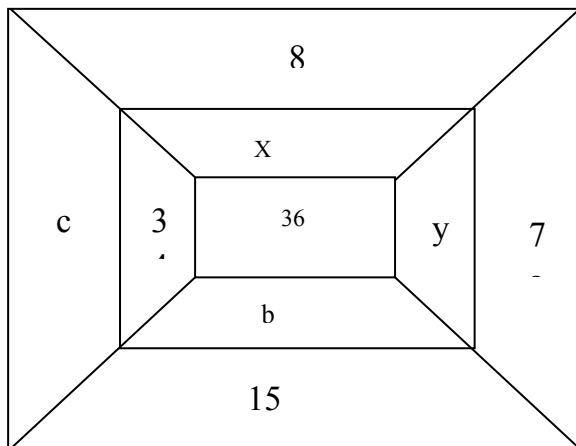
4  +5=12

5 x+5=10

6 m+6=17

**PERIOD 5AND 6**

**CONTENT**



X=25-8

X=17

Y=25-7

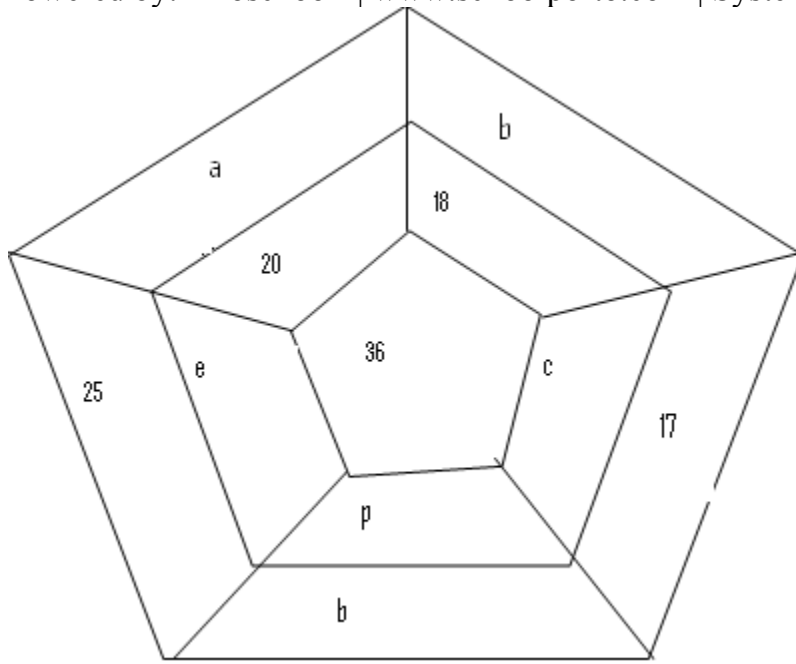
Y=18

**TRIAL NUMBER**

Find the value of of:

a.....

d ..... exercise



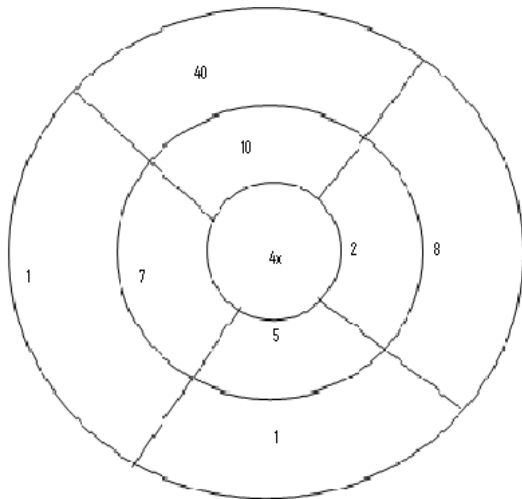
Find the value of

a..... b..... c..... d.....  
*ref:pg81*

Period 7&8

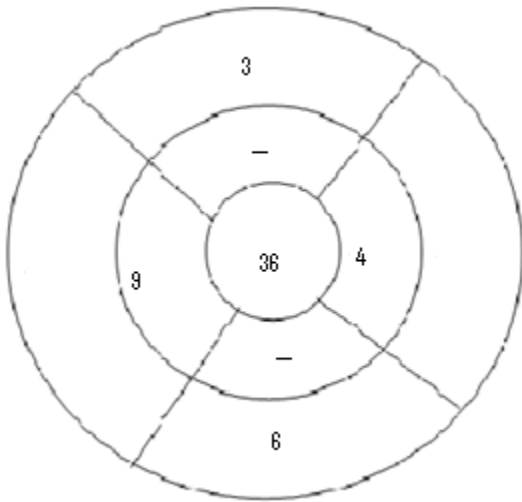
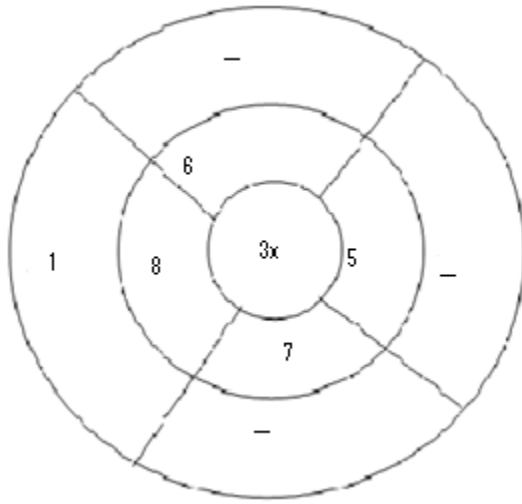
Content

Finding missing numbers



$4x-2=8$   
 $4x10=40$   
 Trial numbers  
 $4x5=.....$   
 $4x7=.....$

Exercise: find the missing numbers in the wheel



Ref: mk ppbk3pg:82

Wk2: period 9&10.pg84

Finding the missing number

$$3 \times 4 = 12$$

$$3 \times 4 = 12$$

$$3 \times \square = 12$$

Solution

$$3 \div 3 \times \square = 12 \div 3$$

$$\square = 4$$

Trial numbers

$$\square \times 3 = 9$$

$\square \times 2 = 8$

**Exercise**

- i.  $2 \times 5 = \square$
- ii.  $3 \times \square = 15$
- iii.  $4 \times \square = 8$
- iv.  $\square \times 7 = 14$
- v.  $\square \times 6 = 12$

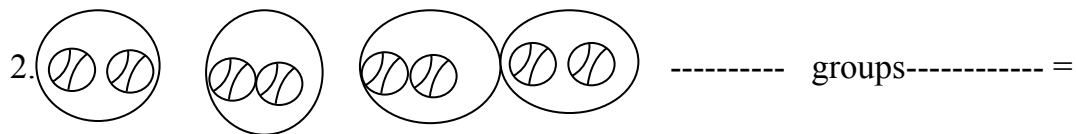
Wk3 period 1 pg 84

Counting in twos

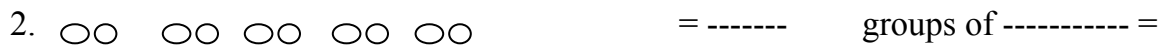
Example



Trial numbers



Exercise



4. ○○ ○○ ○○ ○○ ○○ ○○ ○○ = ----- 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



#### Trial numbers

1.  = ----- Group of ----- = -----

2.  = ----- groups of ----- = -----

#### Exercise

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

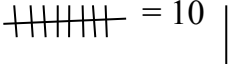
a. 1 fives = 5

2 fives = 5+5=10

 = 5+5=10

Example2



1 tens = 10

 = 10

2 Tens == 10+10=20

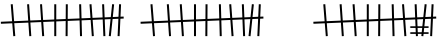
 = 2 groups of tens = 20

Exercise

1.  = ----- groups of ----- = -----  
 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, \_\_\_\_\_

5.  ----- groups ----- = -----

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

**Finding more on missing numbers**

**Work 3 period 7&8pg-89**

**Example :**



1. 0, 2, 4, 6, 8

$$0+2=2$$

$$2+2=4$$

$$4+2=6$$

$$6+2= \textcircled{8}$$

2. 1, 2, 3, 4, 5

Trial numbers

0, 3, 6, 9, -----

Exercise

Find 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	y	5
2	4	6
3	8	x

$$X= \text{-----}$$

$$Y= \text{-----}$$

2	9	a
7	b	3
6	c	d

$$a\text{-----} \quad b\text{-----} \quad c\text{-----} \quad d\text{-----}$$

**Work period 1 and 2 pg.89**

**Multiplying by two, threes, and fours**

**Example**

$$= \quad 2 \times 2 = 4$$

counting numbers

e.g 1, 2, 3, 4, 5, 6, -----

whole numbers: these are numbers without fraction

0, 2, 3, 4, -----

**TRIAL NUMBERS**

A. list all the counting numbers less than 10

B. Write down the whole numbers from 0-9.

i. exercise i. list down all the whole the numbers less than 15

ii. list the counting numbers between the

iii. set A =  $\left. \begin{matrix} 5 \& 10 \\ \text{whole numbers less than } 20 \end{matrix} \right\}$

iv.  $B = \{ \text{all counting numbers less than } 5 \}$

- 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  $A \cap B$
- e. which set has more members

#### **WORK 4 PERIOD 6&7**

Odd numbers and even numbers

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

Even numbers are numbers which are divisible by two.

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

Triangular numbers

- a. List down all even numbers from 6-14.
- b. List the odd numbers from 11-21
- c. exercise