

Zonal Education Office Vavuniya South

First Term Examination – 2016

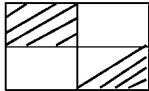
Mathematics


Part - I

Time :- 2 hours

Grade 07

Answer the all questions

1	Simplify: $\frac{1}{3} + \frac{1}{3}$	2	Approximate 86 to the nearest 10?
3	Fill in the blanks $\frac{3}{5} = \frac{\square}{15}$	4	Find the digital root of 13432
5	Fill in the blank with > or < (-5) ----- (-3)	6	Write the time 2.30 pm in standard form?
7	Find the 9 th triangular number?	8	Write all the factors of the number 18?
9	Which is the decade of 1805?	10	Solve: $5a + 3b - 2a - b$
11	Convert $2\frac{1}{3}$ as improper fraction	12	Write the fraction of the shaded area 
13	Write the number 24 as a product of prime factors?	14	What is the value represent of 3 in 13254?
15	If a row have 28 chairs, find the number chairs of 35 rows in a hall?	16	If $a = 5$, find the value of $a^2 + 2$

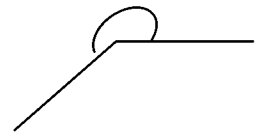
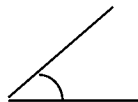
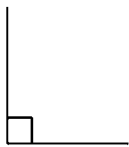
17	If there were 525 females in a meeting of 7450 peoples, how many males were there?	18	Draw the symmetrical axis? 
19	The number of people who visited an exhibition on first two days of the exhibition was respectively 1998 and 5812. how many people in total visited the exhibition on these two days?	20	How many days are there in 3 years?

Part –II

❖ Answer the first question and any four of other questions.

1. Recall your memory about the exploration study of Angles.

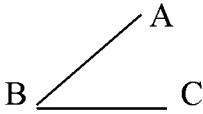
I) Write the type of angle of each of the figures given below



II) Write the above angles in ascending order?

III) Write a unit to measure the angle?

IV) What is the instrument that is used to measure the angle?

V)  What is the name of the angle shown in the diagram?

VI) Draw $\angle PQR = 75^\circ$ using a protractor

VII) Draw the reflex angle with the magnitude of 240° and name it XYZ

(4+2+1+1+2+3+3)

2) a) Simplify

I) $\frac{1}{2} + \frac{3}{4}$ II) $\frac{2}{3} - \frac{5}{12}$ III) $3 + 5(4+3) \div 7-6$

IV) Write in ascending order

$\frac{5}{7}, \frac{5}{6}, \frac{5}{4}, \frac{5}{8}$

b) I) add

Years	Months	Days
12	6	21
3	2	19

II) Subtract

Years	Months	Days
3	6	15
2	4	18

3) I) Fill in the blanks

Number	Divisible by 2	Divisible by 3	Divisible by 4	Divisible by 6	Divisible by 9
412	√	×	√	×	×
2478					
35343					
9240120					

II) Write down the following numbers as a product of Prime numbers?

12, 18, 24

III) Find the H.C.F of 12, 18 and 24?

IV) Find the L.C.M of 36, 54 and 24?

(3+3+2+3)

4)

I) Give in index form

$X \times X \times X \times X$

II) Expand

3^2x^2

III) Expand and find the value

$2^2 \times 3^2$

IV) If $a = 2$ and $b = 3$, find the value of $2a^3b^2$?

V) Write 100 in index notation with prime numbers as bases

(2+2+2+3+2)

5)

a) If $A = \{ \text{The month starting with the letter "J"} \}$

Write down the elements of the set A?

b) If $B = \{ \text{Letter of the word "TITANIC"} \}$

I) Write down the set B by listing its elements

II) Represent the set B by a Venn diagram?

c) If set $P = \{2, 3, 5, 7\}$

Write P using common property of its elements?

(3+3+2+3)

6)

I) Draw a straight line segment AB such that $AB = 6$ cm

II) Draw the straight line segment BC such that it forms an obtuse angle with AB at B.

III) Draw straight line through C parallel to AB in the direction of A.

IV) Mark the point D on this straight line such that $CD = 6$ cm. Join AD to obtain the parallelogram ABCD.

(2+3+3+3)