

**Zonal Education Office Vavuniya South
Second Term Examination – 2018**

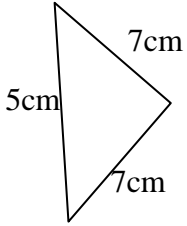
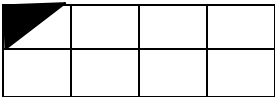
Mathematics

Grade 07

Time :- 2 hours

Part- I

Answer the all questions

01	Give $\frac{64}{100}$ as a decimal number.	02	Solve: $3x + 4 = 19$
03	If $a = 2$, find the value of $3a - 5$?	04	Simplify: $2\frac{1}{2} - 1\frac{1}{3}$
05	Write $2\frac{5}{7}$ as an improper fraction.	06	<p>What type of triangle is PQR according to its sides?</p> <div style="text-align: right; margin-top: 10px;">  </div>
07	<p>What fraction of whole diagram is shaded?</p> <div style="text-align: center; margin-top: 10px;">  </div>	08	Simplify: 0.854×20
09	What is the number represented by $\cancel{H1} \cancel{H1} III$?	10	Express 3084g in kilogrammes.

11	If the price of 10 mangoes is Rs.60, what is the price of 5 mangoes?	12	Write 64 as a power of 4.
13	Fill in the blanks $\frac{3}{5} = \frac{9}{\square}$	14	Write all the factors of 36.
15	Arrange the following numbers in ascending order. 3.2, 4.1, 0.8, 0.74	16	Simplify: $\begin{array}{r} l \quad \quad ml \\ 4 \quad \quad 000 \\ - 2 \quad \quad 050 \\ \hline \\ \hline \end{array}$
17	Solve: $30 + 20 \div 5$	18	What is the digital root of 473?
19	Simplify: $(-8) + (+4)$	20	Draw a obtuse angle and name it $\hat{A}\hat{B}\hat{C}$.

(20x2=40marks)

Part-II

Answer five questions only.

1. a) Fill in the blanks using < or > appropriately.

i. $\frac{1}{9}$ _____ $\frac{4}{9}$

ii. $\frac{2}{5}$ _____ $\frac{2}{3}$

iii. $\frac{1}{4}$ _____ $\frac{1}{3}$

iv. $\frac{4}{5}$ _____ $\frac{3}{4}$

b) Solve: $\frac{3}{4} + 3\frac{2}{3} - 1\frac{1}{2}$

c) Find the value of $0.735 \div 7$

2. a) Give two units used to measure mass.

b) Simplify:

i.
$$\begin{array}{r} kg \\ 10 \\ \times \quad \quad \quad 3 \\ \hline \hline \end{array}$$

ii. $10g \ 400mg \div 8 = \underline{\hspace{2cm}}$

c) The mass of the sweetmeats in a box of mass 1g 250mg is 50g. Find the total mass of the 100 such boxes of sweetmeats.

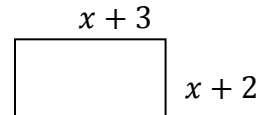
d) Information of the quantities of the nutrients include in a 100g packet of Thripasha.

Protein	20g	Iron	18mg
Fat	7.8g	Carbohydrate	61.9g

If the remaining part is Calcium, find the mass of Calcium in 100g packet of thripasha?

3. a) 1kg of potatoes is x rupees. A bundle of green leaves is y rupees. Write an algebraic expression for the amount paid if 500g of potatoes and a bundle of green leaves are bought. [$500g = \frac{1}{2}kg$]

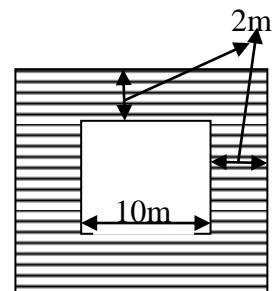
b) If the perimeter of rectangle is 50cm.



- i. Write an expression contains x for the perimeter of the rectangle?
- ii. Construct a equation and find the value of x ?
- iii. Write the length and breadth of rectangle by solving this equation.

4. A square shape land 10m length is given in the diagram. There is a path of width 2m around the shaded portions.

- i. Find the length of land with path?
- ii. Find the area of land with path?
- iii. Find area of land?
- iv. Find the area of path? (Area of shaded part)



5. i. Draw a straight line segment AB of length 4cm.
ii. Draw the angle $\widehat{ABC} = 60^\circ$ at B, by using the protector
iii. Mark C, such that BC=4cm.
iv. Draw a circle of radius BC with B as the centre.
v. What is the special name given to the line BC?
vi. Produce CB to meet the circle again at D.
vii. What is the special name of the line CD?

6. a) Write 12, 18 and 24 as products of prime factors.

$$12 = \underline{\hspace{2cm}}$$

$$18 = \underline{\hspace{2cm}}$$

$$24 = \underline{\hspace{2cm}}$$

- b) Find the highest common factor of 12, 18, 24.

- c) Find the least common multiple of 12, 18, 24.