



# Zahira College – Colombo

Online Holiday Assignment

**Medium :** English

**Grade :** 9

**Subject :** Maths

**Date :**

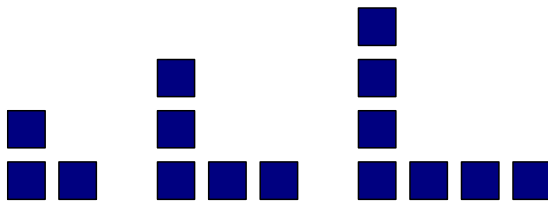
**Adm. No :**

**Name :**

## Part 1

Answer all questions

1) Draw the next two patterns.



2) Which is larger  $6.6$  or  $6\frac{3}{4}$ .

3) The price of 1kg of fruits is Rs. 49.50 What is the price of 10 kg of fruits?

4) Add :  $34.2 + 3.42$

5) Write in scientific notation a) 15 000, b) 0.03432

6) Write in general form a)  $5.12 \times 10^3$  b)  $6.25 \times 10^{-2}$

7) Write down the general term of the series 5, 12, 19, 26....

8) The salary per month for a worker abroad is \$ 420. What is his salary in Srilankan rupees

9)  $1\$ = \text{Rs. } 132$

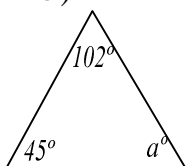
10) A motor vehicle travels a distance of 48km with 4 liters of petrol. Find the distance it will travel with 10 liters of petrol.

11) Find the perimeter of an equilateral triangle of side 2.5 cm.

12) Simplify :

$$(+3) \times (-4) \times (-2) \times (+5)$$

13)



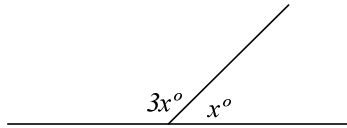
Find the value of  $a^\circ$

14) Find the common difference of the number sequence given below.

10 , 8 , 6 , 4 , .....

15) Solve :  $5x + 3 = 23$

16)



Find the value of  $x^\circ$

17) A number rounded off to the nearest ten is 140. Write down the minimum and maximum possible values.

18) Write 1200 ml in liters

19) Write the next two terms of the following.

-2 , 4 , -8 , 16 , ....., ...

20) Express 45% as a fraction in its simplest form.

## Part II

1)

a) Express the following in scientific notation. [2 marks]

i. 52

ii. 0.00 074

b) Round off 6 985 054 [6 marks]

i. To the nearest ten (10)

ii. To the nearest thousand (1000)

iii. To the nearest million (1000 000)

c) Round off 7.516 [2 marks]

i. To the nearest first decimal place

ii. To the nearest second decimal place

2)

a) Find out the common term of the number pattern given below. [4 marks]

5 , 3 , 1 , -1 , .....

b)  $n^{\text{th}}$  term of a number pattern is  $10-3n$ . [6 marks]

i. Write down the first two terms.

ii. Find out the 10<sup>th</sup> term

iii. Which term is -80

3) Simplify the following fractional expressions. [2x5=10 marks]

a)  $2 \frac{2}{3} \times 1 \frac{4}{5}$       b)  $\frac{1}{3} - \frac{1}{2} \times \frac{1}{4}$

c)  $\left[ \frac{3}{4} - \frac{1}{2} \right] \times 2 \frac{3}{5}$       d)  $\frac{2}{17} \text{ of } \left( \frac{1}{6} + \frac{2}{5} \right) \div \frac{3}{5}$

e)  $\left[ \frac{3}{4} - \frac{1}{2} \right] \times 2 \frac{3}{5}$

4) Nimal deposited Rs 150 000 in a commercial bank. After 3 years he obtained Rs 54 000 as interest. [2.5x4=10 marks]

- What is the annual rate of interest that the commercial bank offered to him?
- What is the interest he could obtain for one year?
- Find the interest he can get for one year for Rs 100.
- When  $x = 3$  and  $y = -1$ 
  - Find  $2x + 3y$
  - Find  $x - 5$

5) A broker charges 1% commission on the selling price for selling a certain land. If the selling price of a land is Rs 1 200 000,

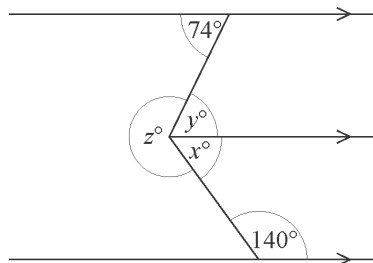
- What is the commission he receives?
- What is the amount of money that land owner can obtain?
- When  $a = -3$ ,  $b = -\frac{1}{2}$  and  $c = \frac{1}{4}$

Find  $3a - b + 4c$

[3+3+4=10 marks]

6)

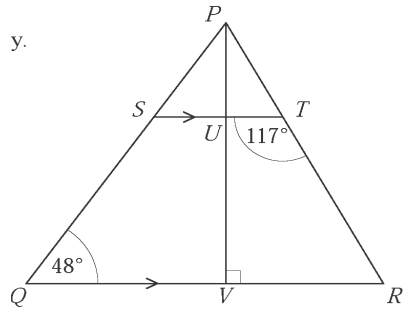
a) The diagram shows three parallel lines. Find the magnitude of angles **with reason**



- Find  $x$ .
- Find  $y$
- Find  $z$

b) The diagram shows the triangle  $PQR$ . The points  $S$  and  $T$  lie on the lines  $PQ$  and  $PR$  respectively. The line  $ST$  is parallel to the line  $QR$ .  $\angle STR = 117^\circ$

and  $\hat{SQR} = 48^\circ$ .



- i. Find  $\hat{QPV}$
- ii. Find  $\hat{QPR}$