



PROVINCIAL DEPARTMENT OF EDUCATION NORTH WESTERN PROVINCE

THIRD TERM TEST - 2018

Grade 06

MATHEMATICS

Two Hours

Name / Index No. :

PART - I

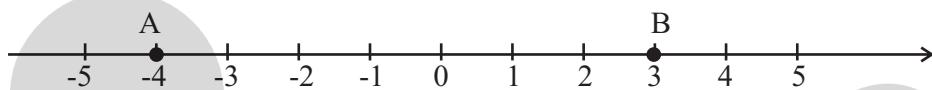
- Answer question number 01 to 20 on this paper itself. Correct answer for each question carries 02 marks.

01. Write the number represented by following tally marks. / / / / / /

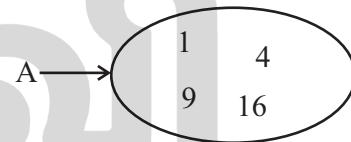
02. Fill in the blanks with the suitable value,

- (i) The number of 200g amounts in 1kg is.....
- (ii) The number of 500g amounts in 1kg is.....

03. Refer the number line & write down all the integers between A & B.

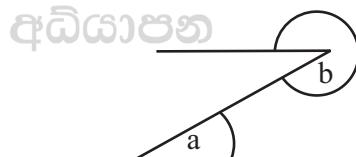


04. Write down a suitable name for group A, based on its common characteristics.



05. Name the a & b angles on the given figure.

- a -
- b -



06. Sixty three million four, write down in the standard form.

07. Shalani had Rs. x. She spends Rs. 10 from it. Write down an algebraic expression for the remaining money.

08. Select and mark (✓) the variables out of the following statements.

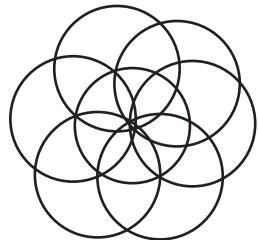
- (i) The number of limes in one kilogramme of limes. ()
- (ii) The number of grammes in one kilogramme. ()

09. Fill in the blanks,

$$\begin{array}{r} \text{kg} \quad \text{g} \\ 2 \quad 150 \\ + \boxed{} \quad \boxed{} \\ \hline 6 \quad 125 \end{array}$$

10. Simplify, $10.8 + 3.25$

11. How many circles shown in the given figure.



12. Write down the suitable measuring units for below.

(i) Amount of the petrol. ()
(ii) Medicine amount for a dose. ()

13. The weight of the toy car given below is 1kg 20g. Write down the weight it in grammes.



14. Round off below weights in to the nearest 10.

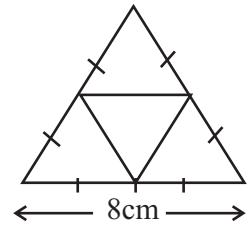
(i) 54 kg (ii) 177 kg

15. Write 3.20pm in international standard form.

16. If  represent 22 students who have taken more than 90 marks for the maths paper. How many students will represent by symbol  ?

17. If a vehicle travels 180km in 2 hours on a highway, find the distance that the vehicle travel in 7 hours?

18. Find the length of an edge the solid will be made using the given net?

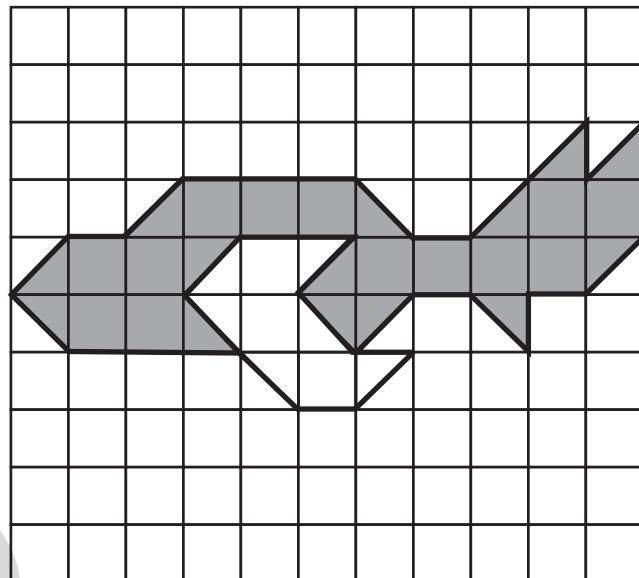


19. The value of one sterling pound is 219 Sri Lankan Rupees. What is the value of 11 sterling pounds in Sri Lankan Rupees.

20. The product of two numbers is 72 and the difference between that two numbers is 1. Find the two numbers.

- Answer to the first question and 4 other questions.
- First question carries 16 marks & other question carry 11 marks.

01. (a) Remind the activity that you have done relevant to the lesson "Area" with the guidance of your mathematics teacher. It made by 1cm x 1cm squares.



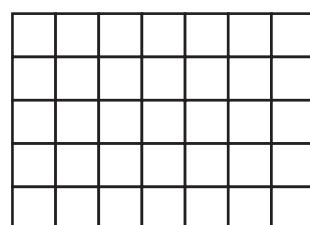
(i) What is the area of a small square of the given construction? (01m.)

(ii) Find the area of the parts shaded in the given constructed figure? (03m.)

(iii) Find the area of the parts non-shaded in the given constructed figure? (02m.)

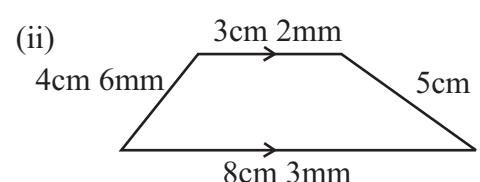
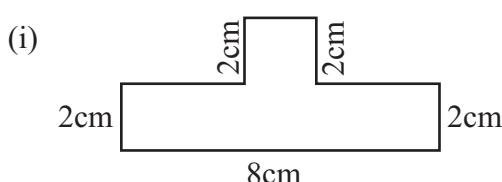
(iv) Write down the ratio between the shaded and non-shaded areas. (02m.)

(b) (i) Copy down the given 1cm x 1cm net in your answer paper. Construct a rectangle on the net which the area is 12cm^2 & the length is 4cm. (02m.)



(ii) Find the parameter of the constructed rectangle. (02m.)

(c) Find the perimeters of following figures.



(04m.)

02. (a) Hence the maths teacher was absent, the students of grade 6 in Gamunu College were collected the number of their family members as below.

2	4	4	2	5	2	3	3
3	5	3	3	6	3	4	4
3	2	4	4	3	4	4	5
4	4	4	3	5	3	2	3
3	3	4	4	6	4	4	3

(i) Write down the number of students present on that day. (01m.)

(ii) Copy down the given table on your answer paper & complete it by using above data. (05m.)

Number of members	Tally mark	No. of houses
2		
3		
4		
5		
6		

(iii) Write down the no of houses which has the most family members? (01m.)

(b) During the remaining time they collected the data about the vehicle which they are coming to school. The collected data as below.

Type of vehicles	No. of students
Bus	8
Motorcycle	13
Van	10
Others	9

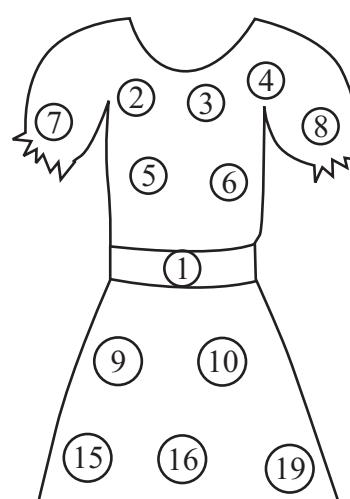
Represent this data in a picture graph, using 2 students are represented by the symbol  . (04m.)

03. (a) Prarthana got a present for her birthday from her mother. When she unwrapped it. She remembered about the lesson "Types of numbers & number patterns" that her teacher taught.

(i) Write down all the odd number printed on the Frock. (02m.)

(ii) Write down the special name to identify the numbers given below $\{1, 4, 9, 16\}$ (01m.)

(iii) When you add two prime numbers the result should be a prime number too. Choose 2 pairs of such numbers. (02m.)

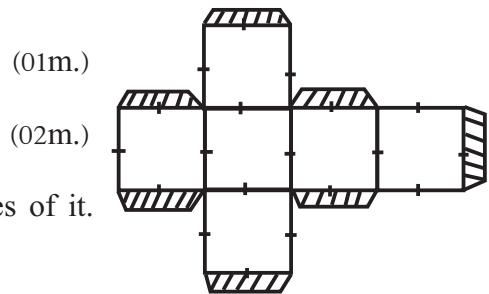


(b) The net of the gift box which give her mother is as below.

(i) Write down the name for the above solid. (01m.)

(ii) Draw another net for it. (02m.)

(iii) Write down the number of faces, edges vertices of it. (03m.)



04.

- Price of 1kg of flour is Rs. x .
- Price of 500g of sugar is Rs. a .

(a) (i) If the price of 1kg of flour increases in Rs. 8.00, Write down the new price of 1kg of flour using an algebraic expression. (02m.)

(ii) Before the price increases, if Janidu gave Rs. 100 to the shop and bought 1kg of flour. Write down the rest money for Janidu using an algebraic expression. (03m.)

(iii) If the price of 500g of sugar decreases in Rs. 5, write down the new price of 500g of sugar using a . (02m.)

(b) If $y = 4$, find the value of followings.

(i) $y + 3$

(02m.)

(ii) $5 - y$

(02m.)

05. (a) (i) Write " $a x a x b x b x b$ " using indices. (02m.)

(ii) Find the value of 3^3 . (02m.)

(b) Write 64,

(i) As a power of 2. (02m.)

(ii) As a power of 4. (02m.)

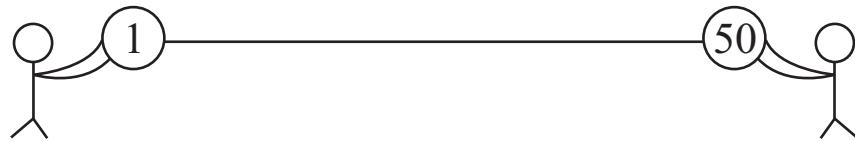
(c) Fill in the blanks appropriately with either symbol $=, >, <$.

(i) $2^3 \dots \dots \dots 3^2$ (01m.)

(ii) $7^2 \dots \dots \dots 1^{10}$ (01m.)

(iii) $3^4 \dots \dots \dots 9^2$ (01m.)

06. (a)



Pathum & Uthum wrote numbers between (1) and (50) on a cardboard and tied a thread between the two numbers as below. Then they advised their sister to hang the multiples of 9 on the thread.

(i) Write down all multiples of 9 between 1 - 50. (03m.)

(ii) Of these numbers, which is the greatest multiple of 9. (01m.)

(iii) What is the triangular number between the hanged numbers? (02m.)

(b) There are some plane figures drawn on the given board. Write the names of plane figures on it.

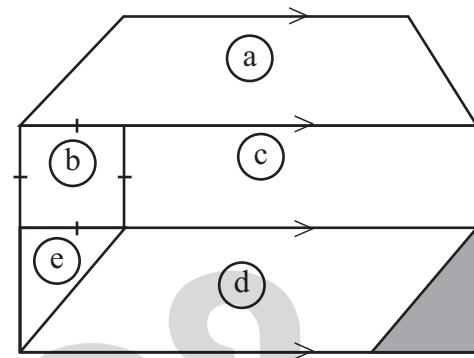
a -

b -

c -

d -

e -



07. (a) (i) Write down all the unit fractions used to decorate the bowl. (02m.)

(ii) Write down all the proper fractions used to decorate the bowl. (02m.)

(b) Fill in the blanks with the symbols "> or <".

(i) $\frac{1}{7}$ $\frac{1}{6}$ (01m.) (ii) $\frac{3}{4}$ $\frac{5}{8}$ (01m.)

(c) Find the values,

(i) $\frac{2}{5} + \frac{1}{5}$ (01m.)

(ii) $\frac{3}{7} + \frac{1}{14}$ (02m.)

(iii) $\frac{7}{8} - \frac{1}{2}$ (02m.)

