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Provincial Department of Education - NWP

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Third Term Test - Grade 06 - 2023

Mathematics - I

02 Hours

Name/Index No.:

● Answer question number 1- 20 on this paper itself. Correct answer for each question carries 02 marks.

01. Select circular shapes from the given diagrams and underline them.



i



ii



iii



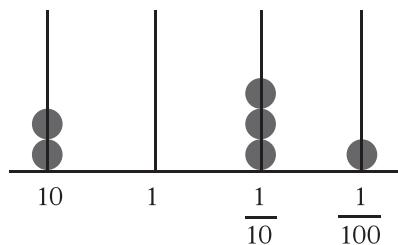
iv

02. is used to determine Whether a plane Surface is horizontal, is used to identify Vertical Positions.

03. $3^2 = 2^3$ Indicate truth/false hood of this statement. Give reasons.

04. Simplify $\frac{7}{12} + \frac{1}{3}$

05. Write down the number represent by the abacus.



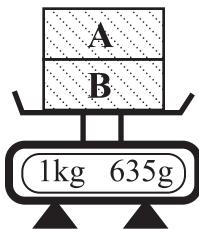
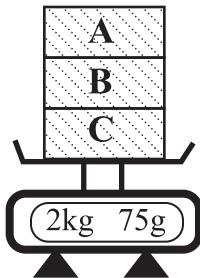
06. Represent the 5th of April, 2015 in international Standard form.

07. How many times the value represented by 2 of the number 3245, is the Value represented by 4?

08. Put (✓) if the following statements are true and (✗) if they are false in the given brackets.

- A cube may also have square faces. ()
- A tetrahedron has the same number of Vertices and faces. ()
- The Sum of the Vertices and faces of a cube equals the number of edges. ()

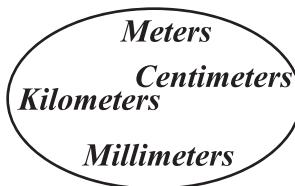
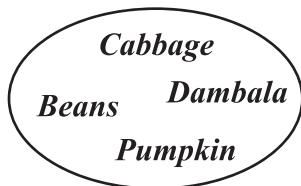
09. Three boxes named A, B and C are placed on a scale in the following figures. Hence find the mass of the box C



.....

10. A class has 92 books to divide among 8 students. How many more books would be needed for everyone to have the same number of books?

11. Write the Suitable name according to the Common Characteristis to introduce the following categories.



.....

.....

12. Show the fifth triangular number in dotted line and write its Value

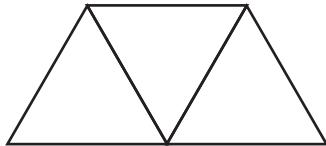
13. The quantity of drink contained in a container is $2l 30ml$. Express it in milliliters.

14. Ravindu says that the 6^{th} square number and 8^{th} triangular number are equal. Explain whether this statement is correct or not.

15. Write the number 32, as a power of 2

16. Write two types of angles greater than the Obtuse angle.

17. A part of a net from Which a tetrahedron can be prepared is shown below and complete the net.



18. Write the following decimal numbers in ascending order.

2.21, 1.2, 2.12, 2.2

19. Find the Value

$$26 \times 100 = \dots \dots \dots$$

$$2400 \div 10 = \dots \dots \dots$$

20. Anjali watches T.V. from 3.30 p.m. to 5.00 p.m. She studies from 5.45 p.m. to 7.30 p.m. Which of the above tasks does She spend most of her time on?

Mathematics

Part - II

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

01. Maths teacher of Mihindu Maha Vidyalaya instructed the grade 6 students to carry out the following project.

Below is an incomplete table showing the information collected under the "Let's Graph Project on the five years of incoming Students nearing grade 6"

Year	Tally marks	The number
2019		12
2020	
2021	17
2022	
2023	23

i. Complete the table correctly

.....

ii. The Students intend to use the  as picture graph to represent the total number of students enrolled in the year 2019. Accordingly how many students are represented by the  ?

.....

iii. Complete the table below to draw picture graph the above table.

Year	No. of Students
2019	
2020	
2021	
2022	
2023	

iv. Write your views on the growth of new student enrollment in Mihindu Vidyalaya.

.....

v. According to the above table the total number of new admissions in a certain 3 years is equal to the total number of students admitted in other two years, so which two years mentioned in the table are true?

02. Below is a portion of bottle packing wrapper

i. Write two pairs of quantities that can be written as ratios.

.....
.....

ii. a) Write the ratio between the masses of the substances given in the lable.

.....
b) Express the ratio in simplest form

iii. The simplest ratio is 2 to 3. There are two substances on the table. Write the two substances in order.

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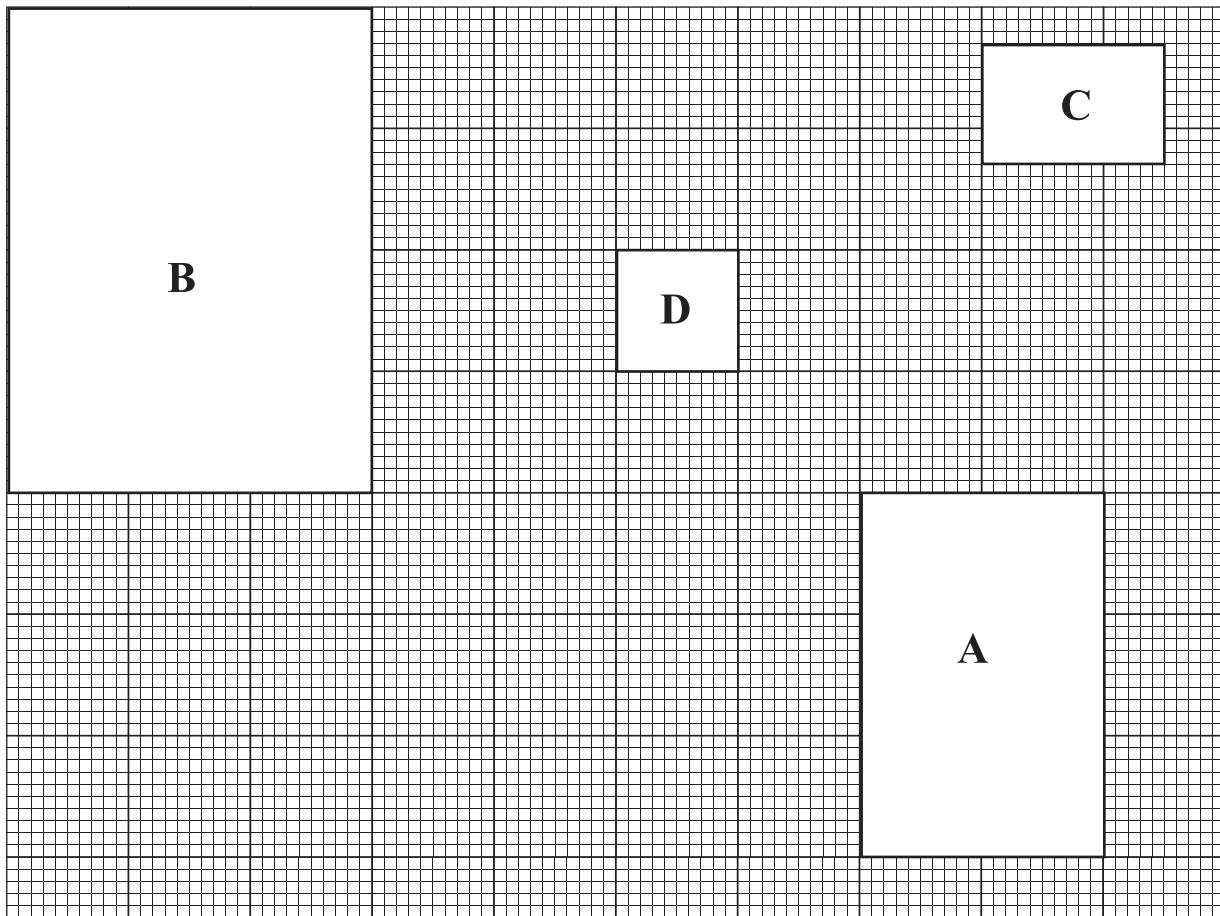
iv. Select and write two substances that can be taken as the rate shown in the lable above.

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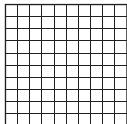
v. A 1l of mango juice costs Rs. 720. What is the cost of mango juice required to make a bottle of the above drink?

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03. The teacher's desk in the grade 6 class room is laid out in a 1cm x 1cm grid. In it, space has been allocated to place the Class record book (A), Register (B), Chark sticks and Chalk pillows (C) Flower pot (D) etc....



Hint:



Represents 100 cm².

<u>Ingredients</u>
Sugar 75g
Mango Juice 100 ml
Salt 5g
E ₂ Colorant 5ml
Water 150ml

i. Which material has gained more area?

ii. Which material has gained lowest area?

iii. Complete the following table

Materials	Area (cm ²)
A	
B	
C	
D	

iv. Find the rest area of the table cloth when all the above materials are placed on the table.

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04. i. Select and write those symbols which can be taken as algebraic symbols from the given symbols.

A

b

g

D

e

I

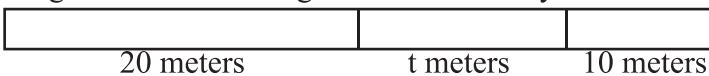
ii. Choose and write which of the following clauses can be expressed in algebraic symbols.

- * Hours per day.
- * The number of hours a person is awake in a day.
- * Number of animals in a forest.
- * Number of prime numbers less than 20.

iii. There are " y " number of limes in a lime tree. After one hour, 3 limes had fallen on the ground
Now express the total number of limes in the lime tree in an algebraic expression.

.....

iv. The diagram shows the length of a drain cut by a laborer in three days.



a. Write the algebraic expression for the total length of this drain.

.....

b. If the total length of the drain is 45 meters, what the length indicated by t?

.....

v. Below are the five cards use for a game.

a = 3
 a + 5
P

b = 1
 b + 9
Q

c = 2
 10 - c
R

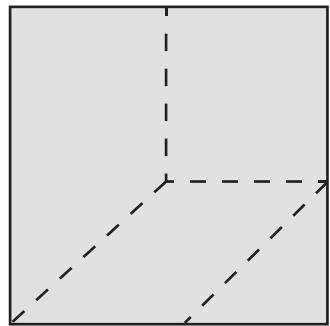
d = 4
 11 - d
S

e = 0
 8 + e
T

Find the value of the algebraic expression of the corresponding card and select and write the cards that have same value

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05. A large square shaped cardboard lamina is cut out along the dotted lines to get some rectilinear plane figures for an activity.

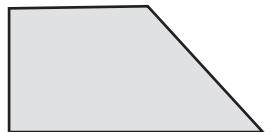


i. How many rectilinear plane figures were cut?

ii. Name the obtained quadrilaterals.

iii. The following plane figure can be cut into two rectilinear plane figures.

They are similar to the plane figures in the original figure. Draw the suitable dotted line to obtain those two plane figures.



iv. a) A rectangle can be made using two plane figures you obtained from the original figure.

Name those two plane figures.

b) Draw the rectangle you obtained in above (a) and show the line joining in a dotted line.

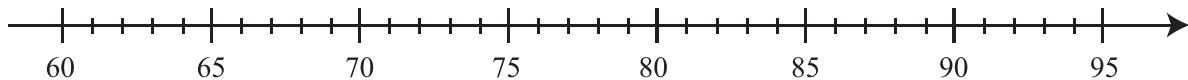
06. It is decided to display the 2nd term test marks for mathematics on a number line in the class.

i. Mark the given data on the number line.

* Nilisha has scored 74.

* Wassana has scored 6 more marks than Nilisha.

* Rosheni has scored 8 marks less than Nilisha.



ii. Write three inequalities using the names of the students and the symbols $<$ and $>$.

.....

.....

.....

iii. Round off the mark of Nilisha to the nearest multiple of 10.

.....

iv. When the mark of Ravindu is rounded off to the nearest multiple of 10 is 90. what could be the minimum mark Ravindu can score?

.....

07. a)

189	70	145	79	36
65	103	88	105	97
93	230	61	124	110

i. Select and write all the numbers that are divisible by 5 without a remainder

ii. Write four multiples of 2

iii. Write all the multiples of both 2 and 5

b) Following shows two cards with numbers written on them.

Numbers that can be used for the numerator
3 5 1
4 7

Numbers that can be used for the denominator
2 9 8
6

using only the above numbers,

i. Write two proper fractions.

ii. Write two fractions equivalent to $\frac{1}{2}$.
