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Department of Education, Southern Province

YEAR END EVALUATION 2022 (2023)

Grade 6

MATHEMATICS

2 hours

Name/ Index number

PART I

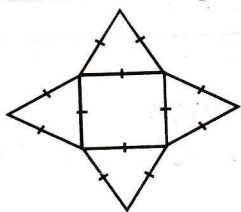
- Write down the answers for all the questions in the paper itself.
- Each question carries 2 marks.

1. Write twenty three billion fifty four thousand six in standard form.  
\_\_\_\_\_
2. Write two equivalent fractions for  $\frac{4}{6}$   
\_\_\_\_\_
3. In the number 32 546, How many times the value represented by 2 is the value represented by 4?  
\_\_\_\_\_
4. Write the 6<sup>th</sup> square number.  
\_\_\_\_\_
5. Find the value.  

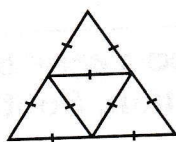
l	ml
6	375
- 5	692
_____	_____
6. Write first four multiples of 16  
\_\_\_\_\_
7. Fill in the blank using suitable inequality sign.  
 $2^3$  .....  $3^2$
8. When Yamuna rounded off her mathematics marks to the nearest ten, she got 50. Find the highest and lowest mark that she can obtained.  
 \_\_\_\_\_  
 \_\_\_\_\_

9. What is the incompatible block for the regular tetrahedron? Underline it.

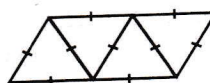
1.



2.



3.



10. Isuri can see Ameesha in the direction of North West. What is the direction that Ameesha can see Isuri?

11. 3, 9, 10, 4, 16, 21, 15, 25

i. Separate the above numbers into two groups based on their common properties.

ii. Propose a name for each group based on their common properties.

12. Place a (✓) in front of the correct statements and Place a (x) in front of the incorrect statements.

i. Spirit level is used to identify vertical position of a plane ( )

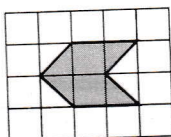
ii. All the surfaces of a cube are flat surfaces. ( )

13. Write all the factors of 18.

14. How many integers from -2 till 2 ?

15. Write the numbers suitable for the empty box to obtain an odd number as the answer of  $43 \square + 261$

16.



If the area of a one square in the square grid is  $1 \text{ cm}^2$ . Find the area of the shaded figure.

17. Find the difference between largest and smallest numbers that can be written by using 7, 2, 6, 5

18. Write the suitable number for the blank in index form.  
 $2^2 + \dots = 20$

19. The price of a book is Rs. p . If the price of a book is increased by Rs. 40,

i. Find the new price of the book.

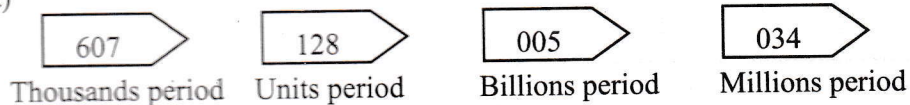
ii. If  $p = 20$ , find the new price of the book.

20. A person bought a book worth Rs.785 and gave Rs. 1000. What is the remaining amount he received?

## MATHEMATICS - PART II

- Answer 5 questions only. Each question carries 12 marks.
- Answers questions in the paper itself.

01. (a)



i. Write a number by using the cards in correct order in standard way.

( 1 mark )

ii. Write the number in words.

( 2 marks )

iii. Write the place value of 2 .....

the value represented by 2..... in the number you written.

( 2 marks )

iv. Represent 607 on an abacus.

( 1 mark )

( b ) Write the answers for the following questions using the numbers given.

1, 2, 9, 25, 3, 10, 36

i. Write prime numbers.

( 2 marks )

ii. Write numbers that belong to both a square number and a triangular number.

( 1 mark )

iii. Draw the 4<sup>th</sup> triangular number

( 1 mark )

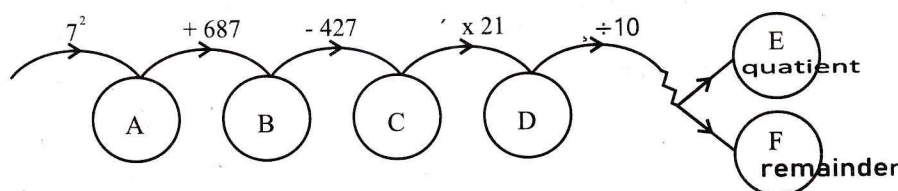
iv. Which pair of numbers can form a square number from the sum of two triangular numbers?

( 1 mark )

v. Write a composite number below 10

( 1 mark )

02. (a) Below is a structured activity for the lesson Mathematical operations on whole numbers.





Write the answers for A, B, C, D, E, F using the above activity.

( 6 marks )

A	B	C	D	E	F

( b ) i) If the value of a refrigerator imported from Japan is 100 000 Japanese Yen, find the value of it in Sri Lankan Rupees ( 100 Japanese Yen = 284 Sri lankan rupee ) ( 2 marks )

ii) Write it in standard form.

( 1 mark )

iii) When making an orange drink, 300 ml of orange juice is mixed with 750 ml of water. Write the ratio between orange juice and water in simplest form. ( 2 marks )

iv) If 500 ml is used to drink, find the remaining amount of orange drink.

( 1 mark )

03. (a) Fill in the blanks.

i.  $1 \text{ kg} = 125 \text{ g} \times \dots\dots\dots$

( 1 mark )

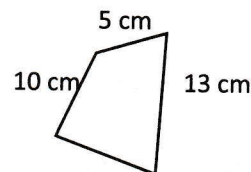
ii.  $3 \text{ kg } 80 \text{ g} = \dots\dots\dots \text{g}$

( 1 mark )

iii.  $\begin{array}{r} \text{kg} \quad \text{g} \\ 15 \quad 87 \\ + 6 \quad 33 \\ \hline \end{array} \qquad \begin{array}{r} \text{kg} \quad \text{g} \\ 8 \quad 542 \\ - 3 \quad 450 \\ \hline \end{array}$

( 4 marks )

(b) If the perimeter of the given figure is 47 cm, find the length of the other side



( 2 marks )

(c) Aruna had run 1350m, Mohomed 1 km 75m and Ravi 1km 400m in first five minutes in a running race.

i. Find the distances run by Mohomed and Ravi in metres.

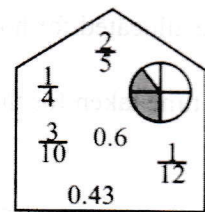
Mohomed..... Ravi.....

( 2 marks )

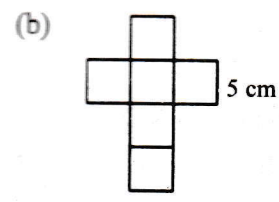
ii. Who is ahead of three ? Give reasons.

( 2 marks )

04. (a) Write the answers by using the card given.



- i. Write the shaded part in the circle as a fraction ( 1 mark )
- ii. Find the sum of the two unit fractions. ( 3 marks )
- iii. Connect decimal numbers using the symbol "<" ( 1 mark )
- iv. Write 0.43 as a fraction. ( 1 mark )
- v. Find the value  $\frac{7}{10} - \frac{2}{5}$  ( 2 marks )



- i. Write the name of the solid construct using this block. ( 1 mark )
- ii. Write an example for the above solid. ( 1 mark )
- iii. Find the perimeter of one face of the solid. ( 1 mark )
- iv. Name a solid which equal in the number of edges, vertices and faces of the above solid. ( 1 mark )

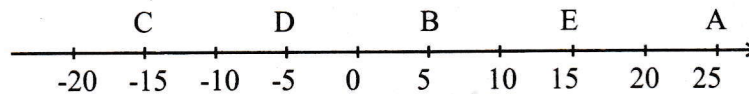
05. Following is the first day agenda of scout camp held at school on 3<sup>rd</sup> of May 2022.

5.30 p. m.	Registration of the members
6.00 p. m.	Hoisting Flags
6.05 p. m	scout leader's welcome
6.30 p. m.	lecture on the night sky
8.00 p. m.	Dinner
8.30 p. m.	Singing scout songs
9.30 p. m.	Going to sleep

- i. Write the above date in standard way. ( 1 mark )

- ii. Write the time allocated for hoisting the flags in seconds. ( 2 marks )
- iii. Find the total time taken for the programme on the first day of the camp. ( 2 marks )
- iv. Write the time that scouts started singing scouts songs in standard form. ( 1 marks )

(b) The temperature in degrees Celsius of several cities around the world on a certain day, has been marked on the number line given below.



- i. Which city recorded the lowest temperature? ( 1 mark )
- ii. What is the temperature difference between city B and city C ( 2 marks )
- iii. If the temperature of city F is (-10) , mark it on the number line. ( 1 mark )
- iv. The temperature of city G is an integer value. It lies between the temperature of cities D and B. Write all the integral value that can be taken as the temperature of the city G. ( 2 marks )

06. The following table shows the number of eggs sold in five days in a certain Store.

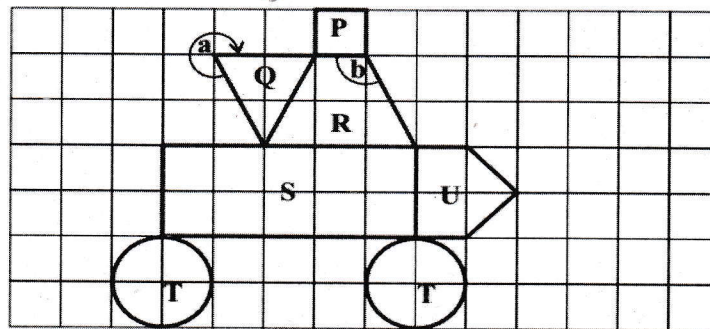
Day	Number of eggs
Monday	24
Tuesday	18
Wednesday	16
Thursday	31
Friday	09

- i. Take 4 eggs are represented by  $\bigcirc$  and represent the above data in a picture graph. ( 5 marks )

- ii. Represent the number of eggs sold in Wednesday using tally marks. ( 1 mark )

- iii. Name the day on which the least number of eggs are sold ? ( 1 mark )
- iv. What is the total number of eggs sold within the five days ? ( 3 marks )
- v. If the selling price of an egg is Rs. 50 , find the total income within five days ( 2 marks )

7 (a)



- i. Name the following shapes. ( 2 marks )  
 R - ..... Q - .....
- ii. Name the following angles ( 2 marks )  
 a - ..... b - .....
- iii. Write a property of a plane figure R ( 1 mark )
- iv. Write the name of the plane figure formed when R and Q are joined. ( 1 mark )
- v. Write a different characteristic of plane figures P and S. ( 1 mark )
- vi. By taking the area of each small square as  $1 \text{ cm}^2$ , find the area of plane figure U. ( 1 mark )
- vii. (b) i) Add  $0.8 + 5.74$  ( 1 mark )
- ii) Write the largest two digit number that is divisible by both 5 and 10 without a remainder ( 1 mark )
- iii) Is 9 a factor of 75 ? Give reasons. ( 2 marks )