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Visakha Vidyalaya , Colombo - 05

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Third Term Test - 2023 (2024)

ගණිතය **Mathematics**	**6 ශ්‍රේණිය** **Grade 6**	*පැය දෙකයි විනාඩි 30* ***Two hours and 30 min***

Name/ Index No......

Part I

❖ **Respond all questions on the paper itself.**

1) If the price of 5 exercise books of 40 pages is Rs. 225, then find the price of one such book.

2) Represent 19 using tally marks.

3) If the number $642\square$ is a multiple of 5, then what are the possible numbers that can be written in the blank box?

4) Write down the following date and the time in international standard form.

   (i) 4^{th} February, 2024 - .....

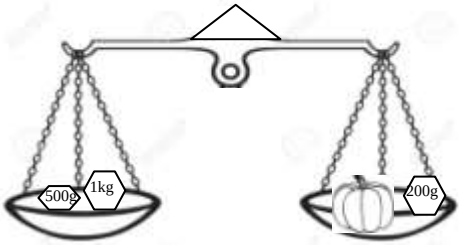
   (ii) 8 minutes 5 seconds past 2 in the afternoon .....

5) Find the values of the two expressions given below if $x = 8$.

   (i) $x + 2 =$ .....

   (ii) $15 - x =$ .....

6) Find the mass of the pumpkin in the following balance scale.



7) Write down,

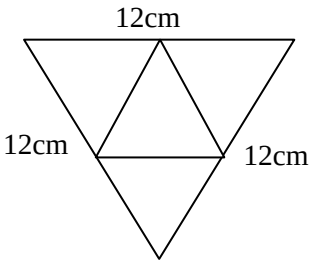
   (i) all the composite numbers .....

   (ii) all the triangular numbers .....
   from 10 to 20

8) Fill in the blanks.

   $64 = 2^{\square} = 4^{\square}$

9)



(i) Name the solid that can be made using the given net in the figure.

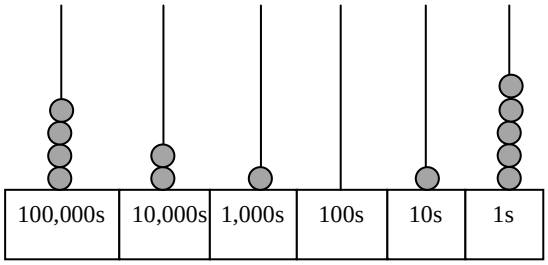
(ii) Find the length of an edge of this model.

10) There is $4l\ 625ml$ of water in a container. after removing an amount of $1l\ 775ml$ from that, what will be the remaining quantity.

11) Fill in the blanks

$78 \times 1000 =$ ☐ $\div\ 10 =$ ☐

12) Write down the number and the name of the number, that has been represented on the abacus.



13) Simplify

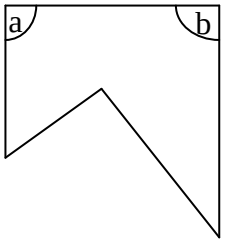
$3198 \div 13$

14) Write down 2 ratios which are equivalent to the ratio 2:3.

15) In the following figure,

(i) What is the type of angle denoted by the letter b?

(ii) Mark a reflex angle in the figure.



16) Write down the greatest odd number which is less than 1000.

17) Simplify

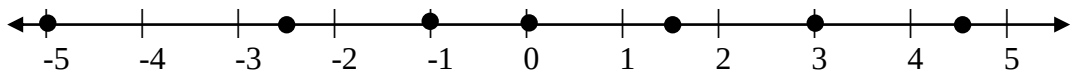
$$\begin{array}{r} 12.4 \\ -\ 4.57 \\ \hline \\ \hline\hline \end{array}$$

18) Write down,

(i) the greatest number .....

(ii) the least number .....
that can be written using all four digits 5,7,8,6 at once having 8 in the hundreds place and 5 in the once place

19) Write down the integers that have been marked on the following number line.



20) There are 20 coconut trees in an estate. The following table shows the number of coconuts plucked from each tree.
Find out the total number of coconuts.

number of coconuts plucked from a tree.	**number of tree**
10	4
12	9
13	7

Part II

- **Respond 6 questions only.**

(1) The number of bicycles sold during the first five months of the year 2023 at a certain bicycle store is given in the table below.

Month	**Number of bicycles sold**
January	40
February	36
March	30
April	42
May	48

(i) Denote 8 bicycles by the symbol ○ and represent this data in a picture graph. **(5 marks)**

(ii) In which month was the most number of bicycles sold? **(1 mark)**

(iii) What is the total number of bicycles that were sold during the first five months? **(2 marks)**

(iv) If the cost of a bicycle is Rs. 20,000 , what is the income received by the sale in the month of January? **(2 marks)**

(2) (a) (i) 1) Write down $2 \times 2 \times 2$ in the index notation and write in words how it is read. **(2 marks)**

2) Find the value of it. **(1 mark)**

(ii) Find the value of $2^4 \times 3^2$ **(2 marks)**

(b) (i) Express the number 128 as a power of 2. **(2 marks)**

(ii) Separate the base and the index of the answer obtained for the above (i). **(2 marks)**

(iii) Fill in the blank using the symbol $>$ or $<$ or $=$ appropriately.

1^{20} ..... 2^{10} **(1 mark)**

(3) The table given below shows few varieties of grains in a small grocery that have been kept for sale.

Variety of grain	Quantity
Chickpea	3kg 400g
Kaupea	2kg 350g
green gram	2kg 500g
Soya	1kg 600g

(i) Find the total mass of all the verities of grains. **(2 marks)**

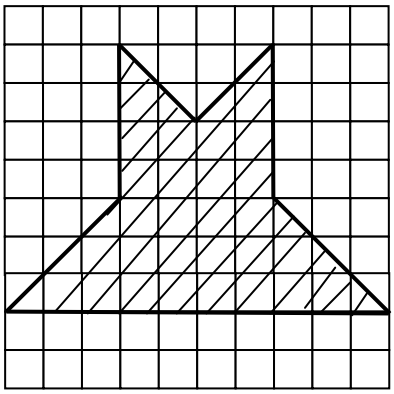
(ii) Find the difference of mass between Kaupea and Soya. **(2 marks)**

(iii) Write down the above answer in kilogrammes. **(1 mark)**

(iv) If 1 kg of Green grams is Rs. 1200 then find the cost of 1kg 250g of green grams. **(3 marks)**

(v) If a person gives Rs. 2000 to buy Green grams, what is the balance he will receive? **(2 marks)**

(4) (a) If the area of each small square in the grid is $1cm^2$.



(i) Find the area of the shaded part. **(1 mark)**

(ii) Find the area of the unshaded part. **(1 mark)**

(iii) Find the difference between the area of unshaded part and the area of shaded part. **(1 mark)**

(iv) Write down the number of shaded squares in the grid, as a fraction of the total number of squares. **(2 marks)**

(v) Show the above answer as a decimal number. **(1 mark)**

(b) (i) Express 4375m in kilometers and metres. **(1 mark)**

(ii) The lengths of 03 ribbons that Kalani got are given below.

Red - 2m 5cm

Blue - 2m 65cm

Yellow - 1m 80cm

Find the length of the longest ribbon in centimeters. **(1 mark)**

(iii) Find the total length of the three ribbons. **(2 marks)**

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(5) (a) The length of a rectangle is 1m and the breadth is 50cm.

(i) Draw a rectangle and mark the above measurements on it. **(1 mark)**

(ii) Write down the ratio between the length and the breadth. **(2 marks)**

(iii) Show the above ratio in its simplest form. **(1 mark)**

(iv) Find the perimeter of the above rectangle. **(2 marks)**

(b) There is a square and there is a triangle of three sides equal to each other and their perimeters are as same as the perimeter of the rectangle.

(i) Find the length of a side of the square. **(2 marks)**

(ii) Find the length of a side of the triangle. **(2 marks)**

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(6) (a) (i) Express 55 hours, in days and hours. **(2 marks)**

(ii) Minutes Seconds **(1 mark)**

4 34

+ 2 48

(iii) Aruna reached Kandy from Colombo at 2.10 p.m. He has spent 3 hours and 25 minutes for the journey. What was the time that he left Colombo? **(2 marks)**

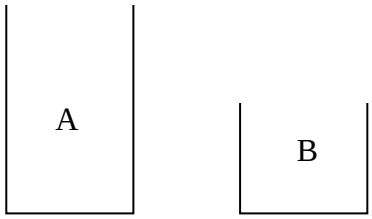
(b) Numbers such as 9, 15, 21 are written on 3 cards.

(i) Write down a number which is not a triangular number from the above numbers. **(1 mark)**

(ii) Find all the factors of each of the numbers separately. **(3 marks)**

(iii) Write down the common factors of all the three numbers. **(1 mark)**

(7)



(a) There are x number of beads in the container A and 60 beads are in container B given in the figure.

(i) Construct an algebraic expression to show the total number of beads in both containers. **(1 mark)**

(ii) The number of beads in container A is three times the number of beads in container B. Find the number of beads in container A. **(1 mark)**

(iii) Substitute the number of beads in container A, in the algebraic expression obtained in above (i) and find the total number of beads. **(2 marks)**

(iv) The total number of beads obtained in the above answer was put into 5 small boxes of same size. Find the number of beads in one box. **(2 marks)**

(v) Round off the answer obtained to the nearest multiple of ten. **(1 mark)**

(b) Simplify and write down the answer in the simplest form, **(3 marks)**

$\frac{2}{3} + \frac{5}{24}$

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