6 ශ්‍රේණිය	ගණිතය	පැය දෙකයි
தரம் 6	கணிதம் வினாத்தாள் - Mathematics	Two Hours

Name :- ....   Index No :- ....

Part I

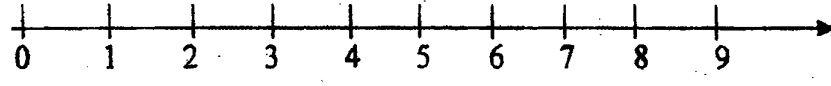- Answer **all** questions 1 to 20 on this paper itself.
- Two marks each for questions 1 -20 $(2 \times 20 = 40$ marks$)$

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01.   a)   The center of the given diagram is ....

       b)   The external point of the circle is ....

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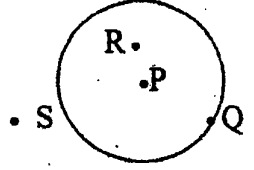
02.   Simplify   535 - 78

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03.   Mark all the odd numbers between 1 and 9 on the number line.

1

04. The number 4 603 200 405 has been written as four million six hundred and three lakhs two hundred thousand four hundred and five by a student. Write down his mistake & correct it.

_____

05. Name the equipment that use to check whether the planes are horizontal.
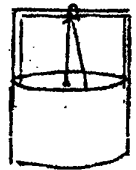
_____

06. Round off 455 to the nearest 10.

_____

07. Write the time 12.00 noon in international standard form.

_____

08. i) In which direction is the well situated from the child

Tree   Well

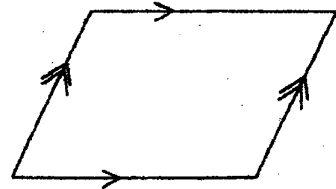ii) In which direction is the tree situated from the flower ?

Child   Flower

2

70

09. Write 2 differences between an angle and a triangle

Angle	Triangle
Open figure . ………………,…vertex	…………………… figure three vertices.

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10. Write a special name for the following quadrilateral.

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11. The length of the ribbon tape belong to Amal   =   3.5cm
     The length cut by Nimal from it   =   1.35m
     The length of the remaining ribbon with Amal   =   ………………

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12. Name a solid which is the number of faces are equal to the number of vertices.

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13. How many times a vessel of capacity 250*ml* should be used to fill up a vessel of capacity 2l ?
     (show the calculations)

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14. The perimeter of a square is 64cm. Find the length of a side.

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15. Circle the composite numbers less than 10 from the following.

	10	9
1	3	

71
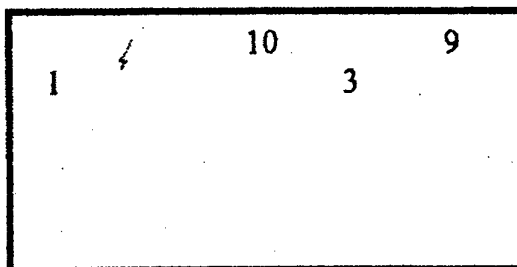
16. Do you agree with the statement "only odd numbers have only two factors" Give reasons with examples.

17. Fill in the blanks.

    i.   4,   9,   16, ...,   36,   49   , ...

18. Simplify

    i. $72 \times 100 =$ _____   ii. $14000 \div 1000 =$ _____

19. The unit place of the number 653 ☐ was erased.

    i.   What is the largest digit can be written to become an odd number   :

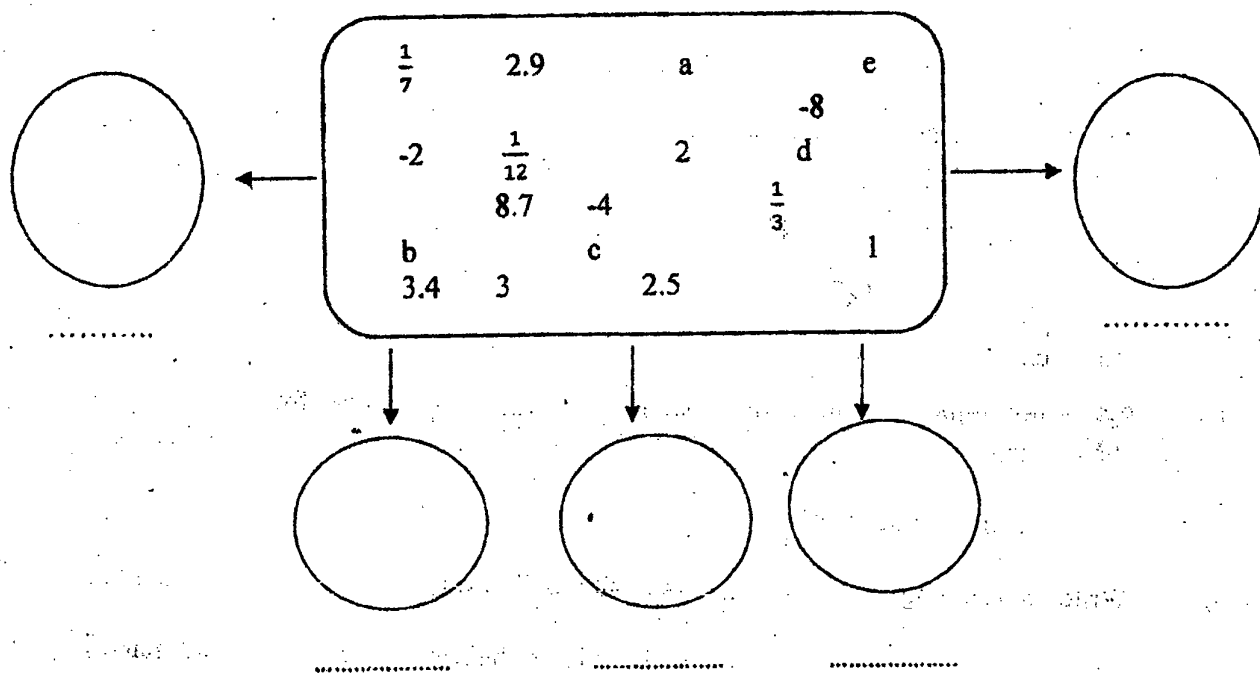   ii.   What is the smallest digit can be written to become an even number :

20. Nimal has Rs. x with him. Write an algebraic expression for the balance with him, if he bought a book for Rs. 120.

4

72

* Answer the **first question** and **four other** questions.
* 16 marks for the first question and 11 marks for each of the others.

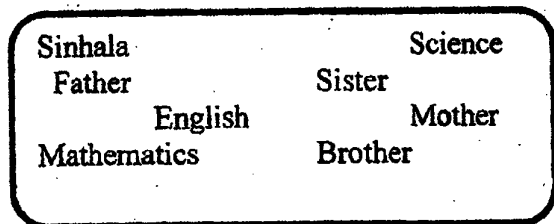
01.   Remind the group activity you did using different types of cards with the guidance of your mathematics teacher.

   i.   Write the relevant name of the lesson.   (1 marks)
   ii.   Name two people who helped you for that.   (2 marks)
   iii.   Write two experiences you obtained while doing the above
          activity.   (2 marks)
   iv.   Write two advantages you get from grouping students.   (2 marks)
   v.   Name two instances we use grouping in day to day life.   (2 marks)
   vi.   Separate the following numbers in to five groups and name them.

$\frac{1}{7}$ 2.9   a   e
-8
-2 $\frac{1}{12}$ 2   d
8.7   -4 $\frac{1}{3}$
b   c   1
3.4   3   2.5

(5 marks)

   vii.   Group the following into suitable groups and name them.

Sinhala   Science
   Father   Sister
        English   Mother
Mathematics   Brother

02.   Simplify.

a)   i. $\dfrac{5}{12} + \dfrac{1}{6}$ (2 marks)

      ii. $\dfrac{1}{2} - \dfrac{3}{7}$ (2 marks)
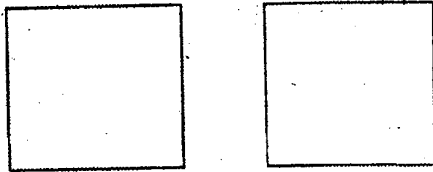
      iii. $\dfrac{4}{5} - \dfrac{7}{15} + \dfrac{2}{3}$ (3 marks)

b)   Select the smallest fraction from the following pair of fractions and circle it.

      i. $\dfrac{2}{10}$ and $\dfrac{3}{5}$ (1 mark)   ii. $\dfrac{3}{4}$ and $\dfrac{4}{5}$ (1 mark)

c)   Show that $\dfrac{1}{2} = \dfrac{3}{6}$ using the two given squares.

                                                                          (2 marks)

03.   The following numbers are written on cards.

| 25 | | 8 | | 14 |

                              | 63 |

| 32 | | 28 |

      i.   Select and write the numbers divisible by two without a remainder from
              above cards ?   (2 marks)

      ii.   Write the ninth multiple of seven ?   (2 marks)

      iii.   Write 18 as a product of two numbers in all possible ways.   (2 marks)

      iv.   Select the odd numbers written on cards and find the sum of them.   (2 marks)

      v.   Fill the blanks with suitable digits.

              5 ▢ 2 ▢
            - 3 9 6 0
            _____
              ▢ 8 6 1
            _____
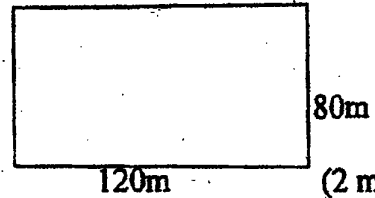   (3 marks)

6

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04. a) i. Geetha drank 600*ml* of milk and Neetha drank, $\frac{1}{2}l$ of milk in the morning.
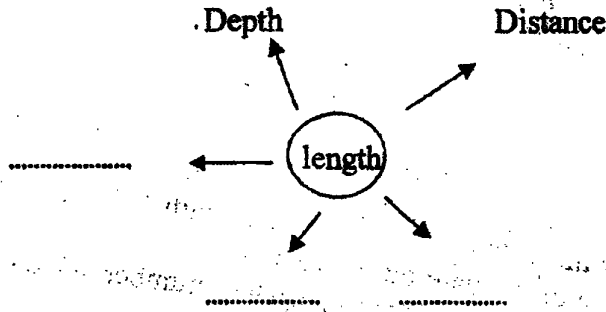
Vinitha says both of them drank 1*l* of milk. Is Vinitha's statement true ?

Write the reason.

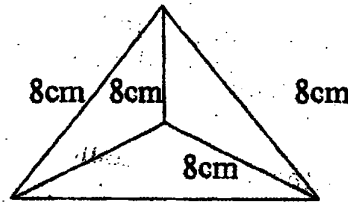b) A watcher walks one round along the rectangular land given below.

80m

120m   (2 marks)

   i.   Find the distance he walked.
   ii. If he goes ten times around the land per day.
        Find the entire distance he goes in a day.   (2 marks)
   iii. Fill in the blanks with suitable terms.

Depth   Distance

length

....

....   (3 marks)

05. a) Write the answers for the following questions according to the given regular tetrahedron.

   i.   number of faces   =   8cm 8cm   8cm
   ii. shape of a face   =
   iii. number of edges   =   8cm
   iv. number of vetices   =

                                                                      (4 marks)
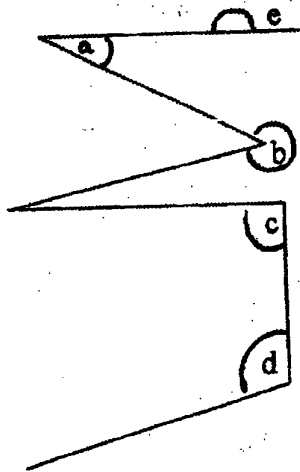
   v.   Draw a rough sketch of a face of the above regular tetrahedron and write the measurements.   (1 mark)

b) The length, breadth and the height of a cuboid are 12cm, 8cm and 4cm respectively. Three different faces of the above are given below. Write the length and breadth of on each of the faces.   (2 × 3 marks)

4cm

12cm   8cm
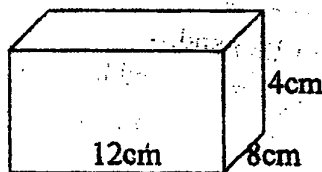
06. a) State the type of the angles in the given diagram.

a

b -

c

d -

e

(5 marks)

b) Mark the following statements if it is correct with "√" or it is incorrect" X"
   i.   There are four square faces in a cube.   (   )   (1mark)
   ii. The square and rectangle has equal of number of axis
        of symmetry   (   )   (1 mark)
   c) Write two examples for vertical planes.   (2 marks)
   d) Draw a rough diagram of a trapezium.   (2 marks)

07. i. Represent the number 15.04 on the given abcus.

| 100 | 10 | 1 | $\frac{1}{10}$ | $\frac{1}{100}$ |
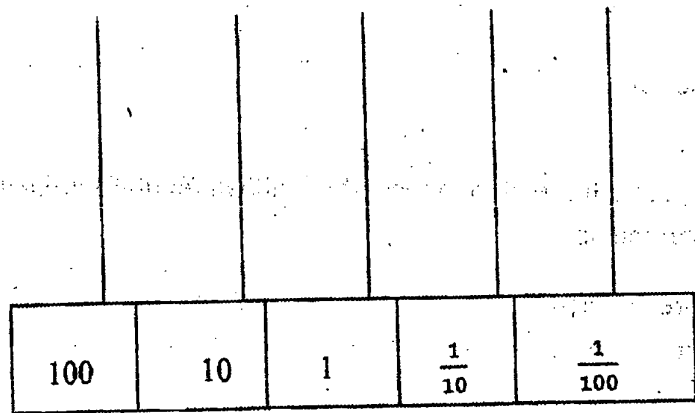
(2 marks)

   ii. Observe the number 12.83 and,
        i.   Write the value represented by 3 : ....
        ii. Write the place value of 3 : ....

   iii. Convert $\frac{8}{100}$ into a decimal.   (2 marks)

   iv. Arrange in ascending order.   (3 marks)

        0.2, $\frac{1}{4}$,   0.02, $\frac{1}{2}$,   0.1   (3 marks)

   v.   Find the value of 25.2 - 12.36   (2 marks)