



Grade
6

THIRD TERM TEST - 2018
Mathematics

School :

Name of the Student/ Index No :

Time: 2 hrs.

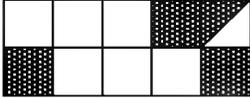
Part - I

Answer all the questions on the paper itself.

1) $16 : 12 = 4 : \square$ Write the suitable value for the box.

2) Write 2457481376 in the standard form

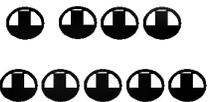
3) Write the area coloured as a fraction of the whole figure.



4) Find the value of $3.5 + 2.03$

5) The following incomplete pattern shows a triangular number. Complete it and write the triangular number.

.....



6) Rajendran had got 24 apples. Write two ways of dividing it into two equal groups.

7) $32 = \square^5$ Write the value suitable to the box.

8) Simplify $37 \div 3$ and write its quotient and remainder.

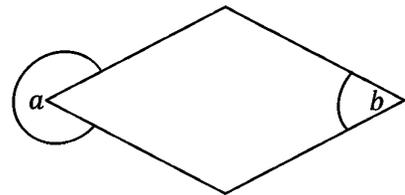
9) Fill in the blank by using a suitable symbol either $>$ or $<$

$$-5 \dots \dots -7$$

10) Write the type of angles given by a and b

a

b



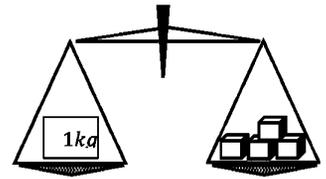
11) Is the following value a constant value or a variable?

The number of mangoes in a bunch of mangoes.

12) What is the name of the rectilinear plane figure which shows the following properties?

- The gap between pairs of opposite sides is constant.
- All the sides are equal in length.
- All the angles are right angles

13) If 100 passengers represented by , represent 75 passengers using the above symbol.

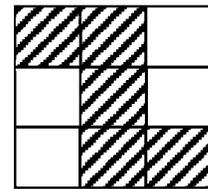


14) If the weight of $1kg$ is in the left pan and the 4 parcels with equal masses are in the right pan of a balance, find the mass of a parcel.

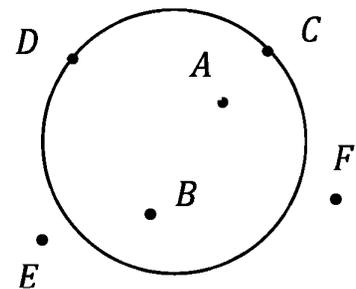
15) A bottle contains $3.065l$. Express that quantity in liters and milliliters.

.....

16) If the length of a side of a square box is $1cm$, find the perimeter of the shaded figure.

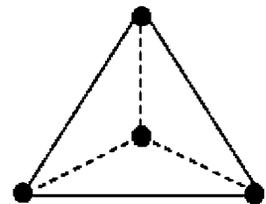


17) Write the 2 letters that indicate the positions on the circle.



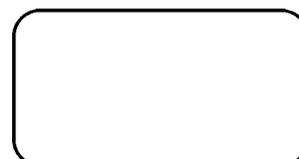
18) What are the digits in the ones place, if that number is divisible by 5 without a remainder?

19) A modal which was built by using 6 ekels and 4 clay ball by a student is given below. What is the solid which can be built after pasting the papers on it?



20) Separate the above fractions into groups by using a common property of them and write them in the following closed figures.

| | | | | | |
|---------------|---------------|----------------|---------------|----------------|----------------|
| $\frac{1}{3}$ | $\frac{7}{9}$ | $\frac{1}{50}$ | $\frac{7}{5}$ | $\frac{4}{11}$ | $\frac{1}{13}$ |
|---------------|---------------|----------------|---------------|----------------|----------------|



Part II

Answer only 5 questions including the first question on the paper itself

1) a) 1 Write how you read the ratio .5: 7 (01mark)

ii. Put (√) if the statement is about ratio and put (×) if the statement is about rates.

- The age of Malith is 8 years and the age of Ganesh is 12. ()
- The length of a rectangular shaped flower bed is $3m$ and its breadth is $1\frac{1}{2}m$ ()
- Two tea spoons of sugar is needed for a cup of tea () (3 marks)

iii. The length of 2 pieces of rope are $1m$ and $250cm$ respectively. Write the ratio of the lengths in its simplest form. (02marks)

vi Write the equivalent fraction for .5: 2 (01marks)

b) A 5kg of sugar is mixed with a 15kg of flour for a bakery product.

- i. Write the ratio of sugar and flour. (2 marks)

- ii. Find the mass of flour needed for 1 kg of sugar in this mixture (1 mark)

- iii. Find the mass of sugar in the 60 kg of the mixture. (03 marks)

3) a) The following table shows the information about the diseases of 60 patients who came to a hospital during a certain day.

i) Complete the table. (5 marks)

| Disease | Tally marks | Nnnumber of patients |
|---------------------|--|----------------------|
| Fever | /// /// /// | 13 |
| Eye disease | /// /// /// /// | |
| Diabetes | | 16 |
| High blood pressure | /// /// | 9 |
| Kidney diseases | | |

ii) What is the disease that most number of patients has taken treatment? (2 marks)

b) The information given in the table is represented in the following picture graph.

ii. Based on the represented data in the following picture graph, how many patients were represented by the symbol  the symbol (01 mark)

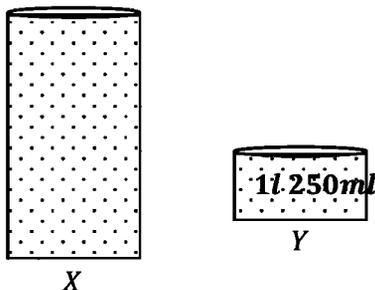
iii. According to it complete the following graph. (3 marks)

| | |
|---------------------|--|
| Fever |  |
| Eye disease | |
| Diabetes |  |
| High blood pressure | |
| Kidney diseases | |

4) a) An empty tank is filled with water by using 2 tubes *A* and *B* and removed water from the tube *C*

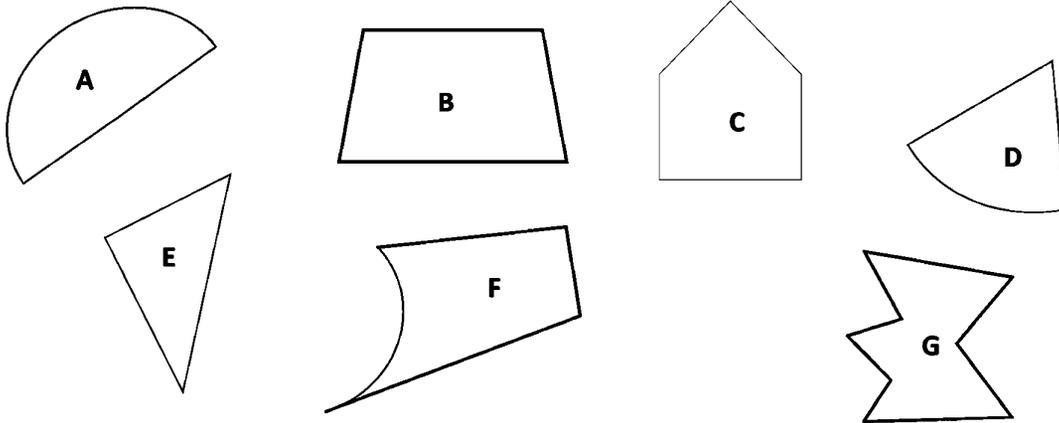
- 250l 750ml of water is added to the tank by the tube *A*, during 15 minutes and 249l 500ml Of water is added to the tank by the tube *B* during 15 minutes.
 - 249l 500ml of water is removed from the tank by the tube *C* during 15 minutes. (02 marks)
- i. If the tube *C* is closed and filled the tank by using the tubes *A* and *B* during 15 minutes. Find the amount of water collected to the tank. (02 marks)
- ii. Find the extra amount of water is added to the tank from the tube *A* than the tube *B*. (02marks)
- iii. When *A*, *B* and *C* tubes are opened for 15 minutes together, find the amount of water in the tank at the end of 15 minutes. (03 marks)

b) *X* and *Y* are two containers which have the same size bases and different heights.



- i. Find the capacity of the small container in liters. (02 marks)
- ii. If the large container is filled with water completely by using the small container, find how many times it should be filled with the water of the small container. (2 marks)

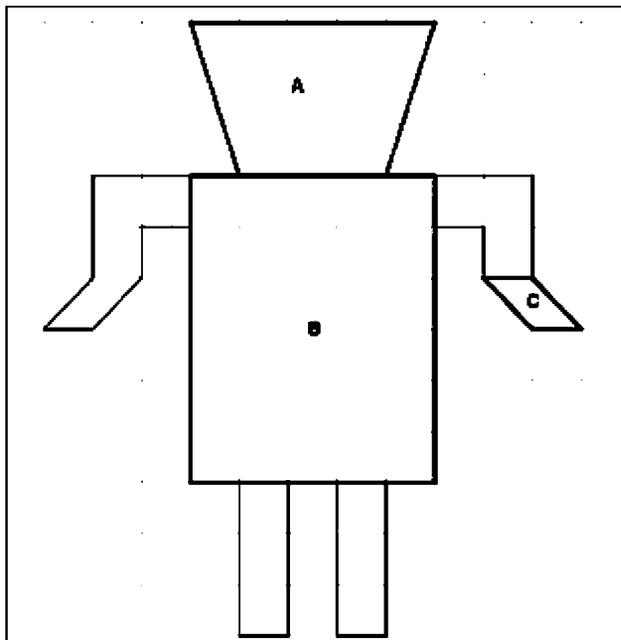
5)i.) Select the rectilinear planes figures out of the following figures and write the letters of them.



Rectilinear plane figures.....

(04marks)

A creation done by a student on a square ruled paper by using rectilinear plane figures is given below.



ii Name the rectilinear plane figures given as A, B, C

A -

B -

C -

(03 marks)

iii. If the area of a small square in the square ruled paper is 1cm^2 , find the area of the above figure in square centimeters. (04marks)

6) a) Fill the following boxes.

i. $\frac{2}{5} \times \frac{\square}{2} = \frac{\square}{10}$

(02marks)

Fill in the blanks using < or >

ii. $\frac{5}{7} \dots \dots \dots \frac{5}{9}$

(01 mark)

iii. $\frac{5}{7} \dots \dots \dots \frac{9}{14}$

(01 mark)

iv. $\frac{5}{7}, \frac{5}{9}, \frac{9}{14}$ Arrange in ascending order.

(02 marks)

b) A vendor sold a $\frac{1}{2}$ of the stock of mangoes on the first day and a $\frac{3}{8}$ on the second day.

i. Express the total number of mangoes sold on the first day and on the second day as a fraction of whole stock of mangoes. (03 marks)

ii. Express the number of more mangoes sold on the first day than the second day as a fraction of the whole stock of mangoes. (2 marks)