# ST. LAWRENCE HIGH SCHOOL
## A JESUIT CHRISTIAN MINORITY INSTITUTION
## Second Term Examination – 2019

**Sub**: Mathematics Model Answers          **Class**: 5          **F.M**: 80
**Duration**: 2Hrs 30 Minutes                                   **Date**: 08.08.2019

### GROUP- A

1. **Choose The Correct Option:**                                    1X5=5

   a) $\frac{3}{4} \times 10 = ?$

   i)   8   ii) 5   iii) $\frac{15}{2}$   iv)   None of These

   Answer: (iii) 15/2

   b) Converting $\frac{1}{1000}$ into decimal we get

   i)   0.0001   ii)   0.001   iii)   0.01   iv) None of These
   Answer: (ii) 0.001

   c) A polygon having seven sides is called

   i)   Nonagon   ii)   Decagon   iii)   Heptagon   iv) None of These
   Answer: (iii) Heptagon

   d) The Sum of the angles of a triangle is equal to

   i)   $90^\circ$   ii)   $180^\circ$   iii)   $360^\circ$   iv) None of These
   Answer ii) $180^\circ$

   e) The distance around the circle is called

   i)   Radius   ii)   Circumference iii)   Centre   iv) None of These
   Answer: (ii) Circumference

2. **Fill in the blanks:**                                         1x5=5

   a) Converting $\frac{7}{10}$ into percentage we have _____.Answer: 70%

   b) Dividing 5 by $\frac{1}{3}$ we get _____.Answer: 15

   c) Place value of 7 in 25.00$\underline{7}$ is _____.Answer: 7 thousandths

   d) The sum of the measures of any two sides of a triangle is always _____ than the third side. Answer: Greater

   e) Half of a circle is called a _____.Answer: Semi- Circle.

3. **Write Down True or False:**                                    1x5=5

   a) Radius of a circle with 8 cm diameter is 3 cm. Answer: False

   b) Converting $\frac{3}{4}$ into percentage we get 75%. Answer: True

   c) 4.80 Kg is heavier than 4.56 Kg by 0.25 Kg. Answer: False

   d) 2.62, 12.64, 0.48 are all like decimals. Answer: true

   e) Volume of cube is  : side X side X side. Answer: True

4. **Match the following .1x5=5**

   |     | Column A | | | Column B |
   |-----|----------|--|--|----------|
   | i)  | Converting 0.82 in fraction we get | | i) | One end point |
   | ii) | 8.75 X 100 | | ii) | 500 gm |
   | iii)| 50% of a Kilogram | | iii) | $\frac{82}{100}$ |
   | iv) | A Ray has | | iv) | Cuboid |
   | v)  | Match Box | | v) | 875 |

Answer:

| Column A | Column B |
|---|---|
| i) Converting 0.82 in fraction we get | iii) $\frac{82}{100}$ |
| ii) 8.75 X 100 | v) 875 |
| iii) 50% of a kilogram | ii) 500gm |
| iv) A Ray has | i) One end point |
| v) Match Box | iv) Cuboids |

5.  **Answer the following.**                                    1x5=5
     a)  How much percent is 10 of 50?
         Answer: 20%
     b)  Divide 90 by 1000.
         Answer: 0.09
     c)  Find the place value of 3 in 31.10.
         Answer: 3 tens.
     d)  Divide $\frac{6}{7}$ by $\frac{1}{49}$.
         Answer: 42.
     e)  Find the Least Common Denominator of $\frac{3}{4}$ and $\frac{6}{25}$.
         Answer: 100

**GROUP- B**

## 6. Answer the following questions.                           (2X4=8)

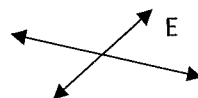   (a)  Find the area of a rectangle if length is 12 cm and breadth is 8 cm.
        Answer: Area = ( 12 x 8 )cm$^2$ = 96cm$^2$
   (b)  Draw a triangle in which two sides are 5 cm each.
        Answer:
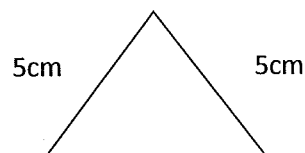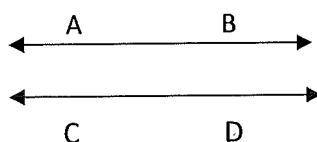


   (c)  Draw intersecting lines and label it.



   (d)  Draw parallel lines and label it.

**7. Answer the following questions ( any four)**                              ( 3x4=12)

(a) Price of one pen is Rs.12. If you have Rs.400 how many similar pens you can buy? How much money
Left after buying?

Answer: Price of one pen is Rs.12.
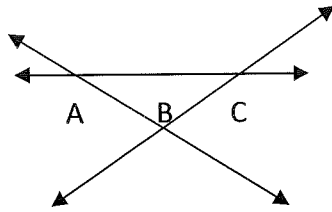
Money available for buying is Rs.400.

So number of pens can be bought Rs.400 ÷ 12 i.e. 33 pens. Money left after buying = Rs. 4

(b) Divide 32.841 by 9 and find the quotient and remainder if exist.

Answer: 32.841÷9 the result is quotient is 3.649.

(c) Draw non-collinear points and give name of those points.

Answer:



(d) With the help of protractor draw an angle of 120°and give name of that angle.

Answer:



$\angle$ XOY is $120^0$

(e) Find the perimeter of a triangle if measurement of three sides are 12 cm, 10 cm, and 8 cm.

Answer: The perimeter of a triangle = Sum of its three sides.

$$= 12cm + 10 \text{ cm} + 8cm$$

$$= 30cm$$

(f) If area of a square is 64 sq cm, what is the side of the square?

Answer: Area of a square = side x side

Therefor Side = 8cm


**GROUP- C**


**8. Answer the following questions ( any seven )**                              (5X7=35)


(a) If area is 25 sq m, height is 5 m, calculate volume.

Answer: Volume = Area x Height

$$= 25 \text{ sq m x 5m}$$

$$=125 \text{ cubic meter}$$

(b) If length is 8m, breadth is 10m and volume is $560m^3$ calculate height.

Answer: We know that Volume = Length x Breadth x Height

$$560 = 8m \text{ x 10m x Height}$$

$$\text{Height} = 560/80$$

$$\text{Height} = 7m$$

(c) Cost of 8 pencil boxes is Rs.720. If you want to buy 12 pencil boxes how much money is required?

Answer: Cost of 8 pencil box is Rs. 720

Cost of 1 pencil box is Rs. 720 / 8 = Rs. 90.
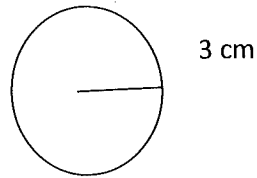
Cost of 12 pencil boxes is Rs. 90 x 12 = Rs.1,080

So Rs.1,080 is required for buying 12 pencil boxes.

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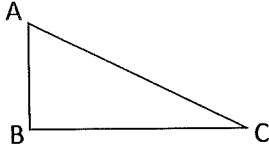
(d) Draw a circle with the help of a compass in which radius is 3 cm
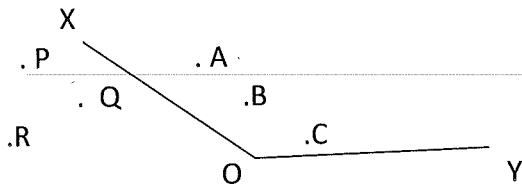
Answer:



3 cm

(e) Draw a right triangle and give name of the triangle.

Answer:



(f) Draw an angle of any measurement, label it and also mark 3 points in the Interior, 3 points in the Exterior of the angle.

Answer:



(g) Mr. Mukherjee has to pay tax Rs. 14,000. If he has been able to pay Rs. 3,500, what percent of the Total tax has he paid?

Answer: Percentage of tax he has paid = Rs. 3,500 / Rs. 14,000 x 100 = 25%

(h) In a shooting competition, team A scored 123.5 points and team B scored 78.75 points. By how many points did the winning team win?

Answer: Team A scored            123.50 points

        Team B scored        -   78.75 points
                                     ——————————

                                    44.75 points

Winning team win by 44.75 points.

(i) How many bricks of size 15cm X 6cm X 3cm will be needed to build a wall of size 45cm X 12cm X 5cm?

Answer: Measurement of the wall = { 45 x 12 x 5 } cm = 2,700 cubic cm.

Measurement of Bricks + { 15 x 6 x 3 } cm = 270 cubic cm.

So, number of bricks required = 2,700 / 270 = 10 bricks.