Q.F. No. 107

MODEL ACADEMY

(THE PRESTIGIOUS SCHOOL OF MIER)

Class: 6th **Session Ending Exam 2019-20** **Time: 2hr 30 min**
Subject: Math **Sample Paper** **Max. Marks: 80**

SECTION –A

Very Short answer type questions.

Q1:- Choose the correct option. **(1x10=10marks)**

a. The ratio of ₹ 20 to ₹5 is:

i. 4 : 1 ii. 1 : 4 iii. 1 : 5 iv. 20 : 1

b. If x = 3, y = 2, the value of the expression 7x – 10y + 1 is:

i. 1 ii. 0 iii. 2 iv. -1

c. The fraction equivalent to 0.13 is

i. 1/103 ii. 103/1000 iii. 13/100 iv. 103/100

d. Which of these is not a like decimal

i. 12.356 ii. 121.908 iii.342.17 iv.586.006

e. Which of these is different from others

i. a die ii. a clock iii. a book iv. a box

f. If a+2b = 5 and c = 3, the value of a + 2(b-c) is

i. 11 ii. 1 iii.-1 iv. -11

g. Thrice a variable subtracted from 9 is added to twice the same variable added to 7 is written as

i. (2x +7) – (9-3x) ii. (2x-7) + (9-3x) iii. (2x-7) + (9+3x) iv. (9-3x) +(2x+7)

h. The ratio of 4m and 60 cm is

i. 1:15 ii. 20:3 iii. 3:20 iv. 15:1

i. The ratio of 20 paisa to Rs. 6 is

i. 1:30 ii. 1:60 iii. 10:3 iv. 3:10

j. How many lines of symmetry does a circle have

i. 1 ii. 2 iii. 3 iv. innumerable

Q2:- Fill in the blanks. **(1x10=10marks)**

a. Area of rectangle = _____
b. Area of square = _____
c. An expression with three terms is known as a _____.
d. Find the missing number in 10:12 = _____ :144
e. A _____ is a quantity which has a fixed numerical value.
f. 10 mm = _____ cm
g. A _____ has a horizontal base line with vertical bars
h. The systematic arrangement of data is called _____
i. The difference between 3/4 and ¼ is _____
j. A _____ is a part of whole.

SECTION –B

Short answer type questions. **(6 x 2 = 12 marks)**

Q3:- Write two equivalent fractions for 2

i. ¾

Or

What should be subtracted from $\frac{7}{9}$ to make it $\frac{2}{9}$

Q4:- Convert the decimal fraction into fraction. 2

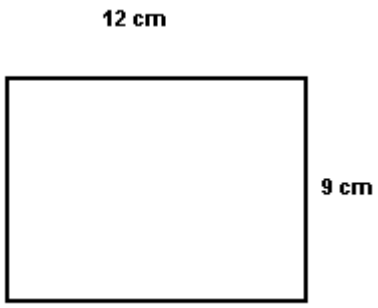
i. 1.60

Or

Write as fraction in their lowest terms:

i) 0.50 ii)0.7500

Q5:- Find the area of the rectangle. 2



Q6:- Write the following as algebraic expressions. 2

i. The sum of 2 and –q
ii. four times the sum of4 and -2p.

Q7:- With the help of a compass and a ruler, draw a circle with radius 3.5cm. 2

Q8:- Draw figure of horizontal and vertical line of symmetry. 2

SECTION –C

Short answer type questions. **(8 x 3 = 24 marks)**

Q9:- Draw a circle of radius 5cm. Mark the following. 3

a. Centre O
b. Radius OD
c. Chord AB

Q10:- Substitute x =2 and y = 4 in each expression and find its value. 3

a. x +3 y
b. y + x

or

If 20 students out of m students went on a picnic, how many did not go?

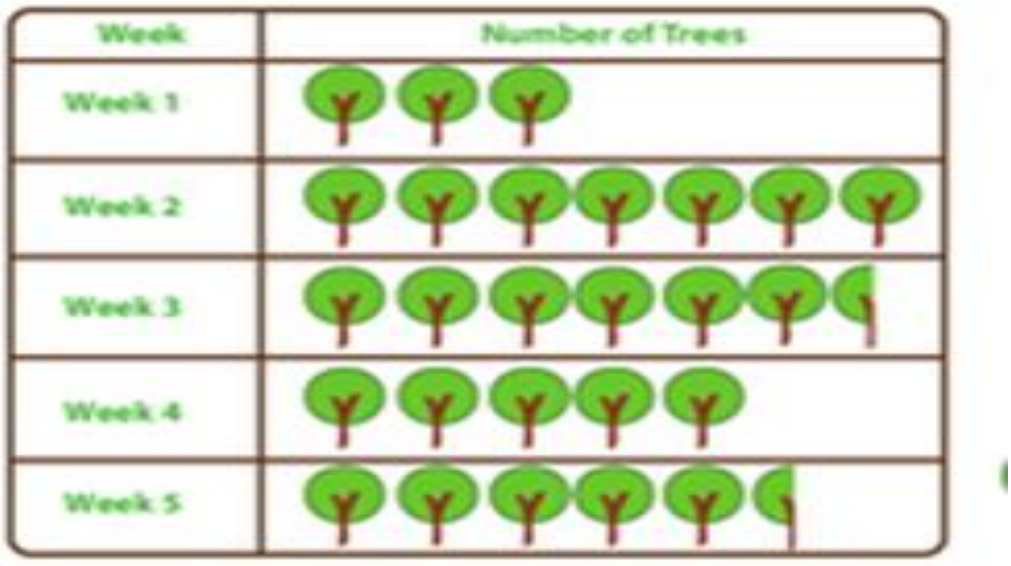
Q11:- Find the Perimeter of square of side 4cm. 3

Or

In 2 hours a car travels 50km. What is the distance it can travel in 5 hours?

Q12:- Different numbers of trees were planted by workers in a month. Study the given pictograph and answer the questions. 3

Key  = 10 trees



i. The maximum number of trees were planted in _____ week.
ii. The minimum number of trees were planted in _____ week.
iii. The number of trees planted in the first two weeks was_____.

Q13:- Find the ratio. 3

a. 2.6m to 64m

Q14:- What is the length of the rectangle if breadth is 4cm and the perimeter is 36 cm. 3

Q15:- Simplify 3

a. 53.64 – 8.79 + 32.54

Or

Find the sum:
Rs67.09+Rs89.70+Rs112.36

Q16:- Arrange the fractions in ascending order. 3

i. 5/7, 9/7, 1/7, 4/7
ii. 25/45, 15/45, 5/45, 35/45

SECTION –D

Long answer type questions. **(6 x 4 = 24 marks)**

Q17. The following table shows the favorite sports of 300 students of a school. 4

Sports	Cricket	Football	Hockey	Badminton	Swimming	Tennis
No. of Students	40	20	60	80	35	65

Represent the above data in a bar graph.

Q18:- A bouquet is made of 20 roses and x lilies. How many flowers does the bouquet have in all? 4

Q19:- If 6 m of cloth is cost Rs. 78. How much will 11m of cloth cost? 4

Or

Goods weighing 168.78kg and 289.225kg were loaded into a lift. On the next floor, goods weighing 89.98kg were removed. What weight of goods is left in the lift?

Q20:- Draw $\overline{AB}$ = 3.4cm and $\overline{PQ}$ = 2.1cm. Now construct 4

i. AB + PQ ii. AB – PQ

Or

Construct line segments 2.1cm, 5.7cm and 6.5cm long. Now construct PQ of length equal to the sum of lengths of three line segments.s

Q21:- Find the cost of fencing a square garden of side 10m, at the rate of ₹5 per m. 4

Or

An estate is divided in the ratio of 5:8. If the smaller part is Rs26,000 , how much is the larger part and how much is the total?

Q22:- Solve the equation and check the result 4

i. -3 – x = -9