पुष्णा International School
Shree Swaminarayan Gurukul, Zundal

HALF YEARLY EXAMINATION (2020 - 21)					
Student's Name:		**Grade**	**VII**	**Roll No.**	
Date:	**11/09/2020 (Friday)**	**Time**	**3 hrs.**	**Subject**	**MATHS**
Teacher's Sign.				**Total marks**	**80**

QUESTION 1

(i) Multiple Choice Questions: [1 MARKS QUESTION] [1 X 10 = 10]

1 The value of (-2) X (-1) X (1) is

(a) 1 (b) 3 (c) -4 (d) 2

2. Reciprocal of 3 is

(a) -3 (b) 1/3 (c) 4 (d) none

3. The mode of the given data 22,29,27,23,43,41,27 is

(a) 23 (b) 27 (c) 22 (d) none

4. The smallest prime number is

(a) 0 (b) 2 (c) 1 (d) None

5. The reciprocal of 2/7 is

(a) 7/2 (b) 1/7 (c) 7/2 (d) -2/7

6. How many pieces of 13.2 cm can be cut from a 330 cm long rod?

(a) 25 (b) 28 (c) 21 (d) 35

7. The median of the data 2, 16, 29, 88, 49, 99, 16, 4, 37 is

(a) 16 (b) 29 (c) 99 (d) 88

8. The angle which makes a linear pair with an angle of 58^0 is of

(a) 122^0 (b) 123^0 (c) 119^0 (d) 69^0

9. If two supplementary angle are in the ratio of 1:2, then the bigger angle is

(a) 120^0 (b) 125^0 (c) 110^0 (d) 90^0

10. Value of (-10) X (-5) + (-7) is

(a) 40 (b) 43 (c) -43 (d) 23

(ii) Fill the blank: [1 MARKS QUESTION] [1 X 10 = 10]

1. The range of the data 21, 23,45,15,17 is _____

2. The mean of the data 3,6,9,10,12 is _____

3. ¾ of 27 is _____

4. 4 x $6\frac{1}{3}$ is equal to _____

5. If 3 – x = - 4, then x = _____

6. If sum of measure of two angles is 90^0, then the angle are _____

7. If sum of measure of two angles is 180^0, then the angle are _____

8 Sum of interior angles on the same side of a transversal is _____

9. The supplement of a right angle is always _____

10. Measures of each of the angles of an equilateral triangle is _____

(iii) Tell whether the statement is true or false: [1 MARKS QUESTION] [1 X 10 = 10]

1. The data 6, 4, 3, 8, 9, 12, 13, 9 has mean 9.

2. Product of two negative integers is a negative integer.

3. Product of three negative integers is a negative integer.

4. 1 is only number which has its own reciprocal.

5. The reciprocal of a proper fraction is a proper fraction.

6. If x – 7/8 = 7/8, then x = 7/4

7 An angle is more then 45^0, its complementary angle must be less than 45^0.

8. Vertically opposite angles are either both acute angle or both obtuse angles.

9. Sum of any two angles of triangle is always greater than the third angle.

10. Sum of the measure of three angles of a triangle is 180^0

(iv) Solve: Each carry one mark: [1 MARKS QUESTION] [1 X 10 = 10]

1 For any integer, what is (-1) X a equal to?

2. 5 X _____ = -35

3. The greater negative number

4. Write equation for: The sum of number x and 5 is 9

5 Write equation for: 2 subtracted from y is 6

6. Find complementary angle of 30^0

7. Find the supplementary angle of 130^0

8. Find the product $\frac{3}{7}$ X 4

9. Find: $2 \div \frac{8}{9}$

10. Find the mode of 4, 5, 4, 7, 12, 4, 8 and 5.

QUESTION 2

Solve: Each carry two marks (Any eight) **[2 X 8 = 16]**

1. Solve: (i) 2 – 3/5

2. Find: (i) ½ 0f 46

3. Find the mean of first five whole numbers

4. Amit scores the following runs in eight innings: 58, 76, 40, 35, 46, 45, 0, and 100. Find mean score.

5. Write down a pair of integers whose: (i) sum is -7 (ii) difference is -10 (iii) sum is 0

6. Verify the following (i) 18 X [7 + (-3)] = [18 X 7] + [18 X (-3)]

7. Write statement for the following equation:

(i) P + 4 = 15

8. Solve: (i) x – 10 = 0

9. Find the angle which is equal to its complement.

10. Find the complement of 20^0

11. Find supplement of 120^0

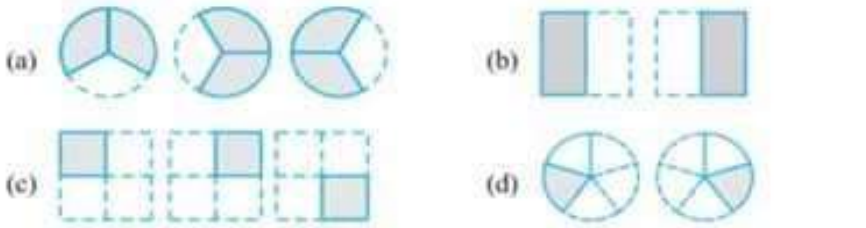
QUESTION 3

Solve: Each carry three marks (Any four) **[3 X 4 = 12]**

1. A plane is flying at the height of 5000m above the sea level. At a particular point, it is exactly above a submarine floating 1200 m below the sea level. What is the vertical distance between them?
2. In a quiz, team, A scored -40, 10, 0 and team B scored 10,0,-40 in three successive round. Which team scored more? can we say that we can add integers in any order?
3.

Which of the drawings (a) to (d) show :

(i) $2\times\frac{1}{5}$ (ii) $2\times\frac{1}{2}$ (iii) $3\times\frac{2}{3}$ (iv) $3\times\frac{1}{4}$



4.

The rainfall (in mm) in a city on 7 days of a certain week was recorded as follows:

Days	Rain fall (in mm)
Monday	0.0
Tuesday	12.2
Wednesday	2.1
Thursday	0.0
Friday	20.5
Saturday	5.5
Sunday	1.0

(i) Find the range of the rainfall in the above data.

(ii) Find the mean rainfall for the week.

(iii) On how many days was the rainfall less than the mean rainfall.

5.

The weights (in kg.) of 15 students of a class are:

38, 42, 35, 37, 45, 50, 32, 43, 43, 40, 36, 38, 43, 38, 47

(i) Find the mode and median of this data.

(ii) Is there more than one mode?

6 . Irfan says that he has 7 marbles more than five times the marbles permit has. Irfan has 37 marbles. How many marbles does permit have?