ÉCOLE GLOBALE
INTERNATIONAL GIRLS' SCHOOL
Dehradun

HOLIDAY HOMEWORK - CLASS VI

MATH

Show all the necessary working required for the MCQS

CHAPTER-INTEGERS:-

Choose the correct answer:-

1. What integer should be added to – 25 to get zero?
   a) 0 b) +25 c) -1 d) none of these

2. What is the predecessor of -3?
   a) +3 b) - 2 c) -4 d) +4

3. What is the successor of -7 ?
   a) -6 b)-8 c) +6 d) +8

4. The integer _____ is neither positive nor negative:
   a) 1 b) 0 c) -1 d) none of these

5. A diver is 20m below sea level. His position is given as -20m.Give his new position as an integer , if he goes further down by 10m.
   a) +10m b) -10m c) -30m d) +20m

6. A diver is 20m below sea level. His position is given as -20m.Give his new position as an integer, if he comes up by 10m.
   a) +10m b) -30m c) +20m d) -10m

7. The value of -16 + 18 -25 + 20 = _____
   a) -3 b) +3 c) + 5 d) -79

8. A point B on the top of the mountain is 4500m above sea level and a point A is 3000m below the sea level. The vertical distance between points A and B is:

a) 1500m b) 7500m c) 45000m d) 3000m

9. The smallest positive integer is
a) 0 b) +1 c) not determinable d) none of these

10. The greatest negative integer is
a) -1 b) 0 c) not determinable d) none of these

11. The integer 4 more than -6 is
a) 10 b) -2 c) +2 d) -10

12. The opposite of -4 is
a) +4 b) +16 c) -16 d) -4

13. What must be added to -135 to get -142
a) +7 b) + 277 c) -7 d) -277

14. Every negative integer is less than
a) -1 b) -2 c) 0 d) none of these

15. Zero is
a) a positive integer b) a negative integer c) neither positive nor negative d) none of these.

Word Problems:-

16. Mt. Everest, the highest elevation in Asia, is 29,028 feet above sea level. The Dead Sea, the lowest elevation, is 1,312 feet below sea level. What is the difference between these two elevations?

17. In Buffalo, New York, the temperature was ¯14°F in the morning. If the temperature dropped 7°F, what is the temperature now?

18. A submarine was situated 800 feet below sea level. If it ascends 250 feet, what is its new position?

19. A submarine was situated 450 feet below sea level. If it descends 300 feet, what is its new position?

20. In the Sahara Desert one day it was 136°F. In the Gobi Desert a temperature of -50°F was recorded. What is the difference between these two temperatures?

21. The Punic Wars began in 264 B.C. and ended in 146 B.C. How long did the Punic Wars last?

22. Metal mercury at room temperature is a liquid. Its melting point is -39°C. The freezing point of alcohol is - 114°C. How much warmer is the melting point of mercury than the freezing point of alcohol?

CHAPTER-RATIO AND PROPORTION

Choose the correct answer:-

1. In a ratio, the first term is also called
   a) Consequent b) Mean c) Extreme d) Antecedent

2. The ratio of 8 hours to 2 days is
   a) 4 : 1 b) 6 : 1 c) 1: 4 d) 1: 6

3. In a class of 60 students, there are 40 boys. Find the ratio of girls to the total number of students.
   a) 1:3 b) 3:1 c) 2: 8 d) 4:1

4. The ratio of 90 cm to 1.5 m is

   a) 5:3 b) 3:5 c) 1: 9 d) 9:1

5. If the cost of 1 dozen pencil is Rs. 60 then the cost of 4 pencils is

   a)Rs. 40 b) Rs. 30 c) Rs. 20 d) Rs. 10

Word Problems:-

6. A herd of 52 horses has 12 white and some black horses. What is the ratio of white to black horses?
7. A pattern has 5 blue triangles to every 80 yellow triangles. What is the ratio of blue triangles to all triangles?

8. Noah drew 22 hearts and 76 circles. What is the ratio of circles to all shapes?

9. A truck is carrying pear juice, cherry juice, and apple juice bottles in a ratio of 3 : 1 : 3. If there are 16 cherry juice bottles, then how many juice bottles in total are there?

10. The ratio of girls to boys in a chess club was 5 : 4. There were 32 boys. How many girls were there in the club?

11. Jayden and Isabella share a reward of $40 in a ratio of 2 : 3. How much does Jayden get?

12. Jayden and Caden share a reward of $140 in a ratio of 2 : 5. What fraction of the total reward does Jayden get?

13.Gavin has nickels, dimes, and quarters in the ratio of 8 : 1 : 2. If 30 of Gavin's coins are quarters, how many nickels and dimes does Gavin have?

14. The ratio of girls to boys in a a swimming club was 2 : 4. There were 14 girls. How many total members were there in the club?

CHAPTER-EQUATIONS

Choose the correct answer:-

1. If side of a square is y, then its area.

   (a) 4y (b) y × y (c) 4 + y (d) y ÷ 4

2. Age of Sonu's father is thrice his age. Father's age after five years is

   (a) 3x (b) 3x - 5 (c) 3 × 5 × x (d) 3x + 5

3. If n students are sitting in a row. Number of students sitting in m Rows

   (a) mn (b) m + n (c) m - n (d) m ÷ n

4. Which of the following value makes the equation 6s – 12 = 3s, is correct

   (a) -4 (b) 6 (c) -6 (d) 4

5. If r is the radius and d is the diameter of a circle, then the relation between them

   (a) r = 2d (b) d = 2r (c) r ÷ 2 = d (d) dr = 2

6. Which of the following equation is correct

   (a) (x + y) z = x (y + z) (b) x (y + z) = xy + xz (c) (x + y) + z = (x × y) z (d) x – y + y = y – x + x

7. Five times of the sum of 3x and 4y

   (a) 5 × 3x × 4y (b) 5 + (3x × 4y) (c) 5 (3x + 4y) (d) 5 + (3x + 4y)

8. Product of 7p and 2q added to the quotient of 3p ÷ 5q is

   (a) (7p × 2q) + (3p ÷ 5q) (b) (7p + 2q) × (3p ÷ 5q) (c) (7p + 2q) + (3p × 5q)

(d) $(7p \times 2q) \div (3p \div 5q)$

9. Which of the following is an algebraic equation

(a) $5x + 3 < 9$ (b) $5x + 3 + 8$ (c) $5x + 3 = 8$ (d) $5 + 3 = 8$

10. Constant in the expression $10x + 5y – 6z + 7$ is

(a) 10 (b) 5 (c) -6 (d) 7

Word Problems:-

11. The sum of two consecutive odd numbers is 96. Find the numbers.

12. A number increased by 39 is 111. Find the number.

13. Twice a number is 4. What is the number?

14. The product of three and a number is 33. What is the number?