CLASS 7 - TEST PAPER 14

Class 07 - Mathematics

Time Allowed: 45 minutes **Maximum Marks: 20**

1. Find the median of the data set, which shows the heights (in inches) of 10 students in Mr. Brajesh's class. **[1]**
   67, 62, 66, 63, 68, 69, 69, 69, 64 and 79

   a) 67.5 b) 69

   c) 75 d) 72

2. Find the mean of the first 10 odd natural numbers. **[1]**

   a) 10 b) 12

   c) 20 d) 15

3. Write the statements One fourth of m is 3 more than 7 in the form of equations: **[1]**

   a) 4m + 7 = 3 b) $\frac{1}{4}m - 3 = 7$

   c) $\frac{1}{4}m + 7 = 3$ d) 4m + 3 = 7

4. When you multiply a number by 6 and subtract 5 from the product, you get 7. Find the number. **[1]**

   a) 2 b) 7

   c) 4 d) 3

5. A shopkeeper purchased 500 pieces for ₹20 each. However 50 pieces were spoiled in the way and had to be thrown away. The remaining were sold at ₹25 each. Find the gain or loss %. **[1]**

   a) 15% b) 18%

   c) 20% d) 12.5%

6. The ratio of cost price and selling price is 5 : 4, percentage loss is- **[1]**

   a) 25 b) 20

   c) 50 d) 40

7. A TV with marked price ₹16000 is available on 15% discount. The selling price of TV is **[1]**

   a) ₹15000 b) ₹11000

   c) ₹13600 d) ₹14760

8. The value of X for which the two rational number $\frac{3}{7}$, $\frac{x}{42}$ are equivalent, is **[1]**

   a) 12 b) 10

   c) 15 d) 18

9. In a school, $\frac{5}{8}$ of the total student are boys. If there are 360 girls, then the number of students in the school is _____. **[1]**

   a) 920 b) 360

c) 960 d) 500

10. Find: $\frac{2}{5} \times \frac{-3}{7} - \frac{1}{14} - \frac{3}{7} \times \frac{3}{5}$ **[1]**

a) $-\frac{1}{2}$ b) 2

c) 1 d) $\frac{1}{2}$

11. Circumference of a circle of diameter 5 cm is **[1]**

a) 31.4 cm b) 15.7 cm

c) 3.14 cm d) 1.57 cm

12. A wire is bent to form a square of a side 22 cm. If the wire is rebent to form a circle, its radius is **[1]**

a) 22 cm b) 14 cm

c) 11 cm d) 7 cm

13. In reference to a circle the value of π is equal to **[1]**

a) $\frac{\text{circumference}}{\text{diameter}}$ b) $\frac{\text{area}}{\text{diameter}}$

c) $\frac{\text{area}}{\text{circumference}}$ d) $\frac{\text{circumference}}{\text{radius}}$

14. Find the value of 5(x - y) + 4(x + y) if x = 2 and y = 3. **[1]**

a) 10 b) 11

c) 14 d) 15

15. Which of the following is like term as $7x^2y^2$? **[1]**

a) 7x b) $13x^2y^2$

c) 7y d) $7y^2$

16. Which of the following is a pair of like terms? **[1]**

a) $4xyz^2$, $4x^2yz$ b) $-10xyz^2$, $3xyz^2$

c) 3xyz, $3x^2y^2z^2$ d) $-7xy^2z$, $-7x^2yz$

17. Simplify and write the answer in exponential form. $(9^{50})^3$ **[1]**

a) $(9)^{150}$ b) $(9)^3$

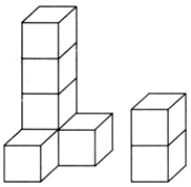
c) $(9)^{50}$ d) $(9)^{53}$

18. The value of $\left[(-2)^{(-2)}\right]^{(-3)}$ is **[1]**

a) 64 b) Cannot be determined

c) 46 d) 32

19. Count the number of cubes in the given shapes. **[1]**



a) 7 b) 9

c) 8

d) 5

20. How many edges are there in a cuboid? **[1]**

a) 12

b) 10

c) None of these

d) 8