

WORKSHEET CLASS - VI

OLYMPIAD OF MATHEMATICS (2017-18)

Q1. Evaluate: $[(563 \times 8) + 70] - 4384 \div 10$

- (a) 60
- (b) 45
- (c) 19
- (d) 24
- (e) None of these

Q2. Difference between the place values of 3 and 7 in 6,380,942 and 5,107,289 is:

- (a) 29,300
- (b) 27,300
- (c) 273,000
- (d) 293,000
- (e) None of these

Q3. Sum of numerator and denominator of a fraction is 56. Denominator of the fraction is 2 greater than its numerator. Find the fraction.

- (a) $\frac{7}{9}$
- (b) $\frac{27}{29}$
- (c) $\frac{29}{27}$
- (d) $\frac{6}{35}$
- (e) None of these

Q4. A shopkeeper bought 678 metre of cloth for ₹ 34578. What will be the selling price of one metre of cloth if shopkeeper has to sell ₹ 2.75 above the cost price of 1 metre of cloth?

- (a) ₹ 63.75
- (b) ₹ 26.00
- (c) ₹ 53.75
- (d) ₹ 28.25
- (e) None of these

Q5. The HCF of 1 and a number is:

- (a) 0
- (b) 1
- (c) 6
- (d) The number itself
- (e) None of these

Q6. What is the LCM of two prime numbers?

- (a) Their addition
- (b) Their product
- (c) Their division
- (d) 1
- (e) None of these

Q7. If first, second and third terms of a proportion are first three natural numbers, then the fourth term will be:

- (a) 6
- (b) 2
- (c) 4
- (d) 5
- (e) None of these

Q8. From the expression $5x + 7x + y + z$, find the terms which are not constant terms.

- (a) $5x$ and y
- (b) y and z
- (c) $5x$ and $7x$
- (d) All terms
- (e) None of these

Q9. Find the measure of each angle of a triangle if one angle is two times of another and third one is the sum of the both angles.

- (a) 45° , 30° and 80°
- (b) 40° , 60° and 80°
- (c) 30° , 60° and 90°
- (d) All of the above
- (e) None of these

Q10. Find the perimeter of a square whose area is 4 m^2 .

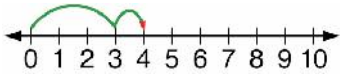
- (a) 7m
- (b) 10m
- (c) 9m
- (d) 8m
- (e) None of these

Q11. Which of the following letter of English alphabet does not have any line of symmetry?

- (a) X
- (b) O
- (c) Z

- (d) I
- (e) None of these

Q12. Write the integer which is represented on the following number line.



- (a) 1 more than 3
- (b) 3 less than 4
- (c) 4 more than 3
- (d) 1 less than 3
- (e) None of these

Q13. In a two digit number, the digit at the unit place is 4 times the digit at the tens place and sum of the digits is equal to 10. Then the number is.

- (a) 37
- (b) 46
- (c) 28
- (d) 19
- (e) None of these

Q14. To construct an angle of 30° , what will you do?

- (a) Bisect 60°
- (b) Trisect 120°
- (c) Draw perpendicular at 90°
- (d) All of these
- (e) None of these

Q15. The smallest possible three-digit number which is divisible by 8, 12 and 30.

- (a) 108
- (b) 120
- (c) 240
- (d) 360
- (e) None of these

Q16. Jack is 2 years older than Jill and Jill is 7 years older than Jacob. The sum of their ages is

34. What would be the age of Jack?

- (a) 15 years
- (b) 14 years
- (c) 13 years
- (d) 11 years
- (e) None of these

Q17. Subtract $4p + 7q - 19r$ from $6p - 12q - 37r$

- (a) $2p - 19q - 19r$
- (b) $2p - 19q + 18r$
- (c) $2p - 19q - 18r$
- (d) $2p - 19q + 19r$
- (e) None of these

Q18. If the 29th day of a month falls on a Thursday, what is the date of the second Saturday in that month?

- (a) 9
- (b) 10
- (c) 11
- (d) 12
- (e) 13

Q19. The LCM of two numbers is 175 and their HCF is 5. If one number is 25, then the other number will be:

- (a) 15
- (b) 25
- (c) 35
- (d) 45
- (e) None of these

Q20. The monthly income of 7 people are ₹ 900, ₹ 500, ₹ 800, ₹ 4500, ₹ 1200, ₹ 1300, ₹ 600. What is their average income?

- (a) ₹ 1400
- (b) ₹ 1600
- (c) ₹ 1800
- (d) ₹ 2100
- (e) None of these

Q21. In an auditorium, $\frac{8}{9}$ of total seats are occupied by people. If the total number of peoples in the auditorium are 824, how many number of seats are there in the auditorium?

- (a) 828
- (b) 927
- (c) 1098
- (d) 675
- (e) None of these

Q22. Find the value of x , if $3x + \frac{1}{2} = 89$

- (a) 29
- (b) 29.5
- (c) 30
- (d) 35.5
- (e) None of these

Q23. Convert the fraction $\frac{5}{7}$ into decimal.

- (a) 0.01
- (b) 0.001
- (c) 0.714
- (d) 0.075
- (e) None of these

Q24. What percent of 65 is 54?

- (a) 14.45%
- (b) 85.34%
- (c) 83.07%
- (d) 88.67%
- (e) None of these

Q25. The value of y in $5x + 34y = 14$ is

- (a) 1
- (b) 2
- (c) -1
- (d) -2
- (e) None of these

Q26. Choose the pair of supplementary angle from the options given below.

- (a) 100° and 260°
- (b) 105° and 75°
- (c) 80° and 180°
- (d) 90° and 180°
- (e) None of these

Q27. Find mean of the following data.

1, 2, 3, 4, 5, 6, 7, 8, 9, 10

- (a) 5.5
- (b) 4.5
- (c) 6.5
- (d) 7.5
- (e) None of these

