



VIDYA BHARATI SCHOOL
Olympiad Worksheet (January 2018)
Grade : VI
Subject : Mathematics

Tick ✓ the correct answer:

1. In a quiz, positive marks are given for correct answers and negative marks are given for incorrect answers. If John's scores in five successive rounds were 25, - 5, - 10, 15 and 10, what was his total at the end?

- a. 35 b. 65 c. 50 d. 45

2. $(-3) \times (-4) =$ _____

- a. -12 b. 12 c. 7 d. -7

3. $(-7) \times (-2) \times (-1) =$ _____

- a. 14 b. 10 c. -14 d. -10

4. $(-15) \times [(-7) + (-1)] =$ _____

- a. 23 b. -120 c. -23 d. 120

5. $45 \div (-3) =$ _____

- a. -15 b. 15 c. 48 d. -48

6. Write the equation for 'The sum of two times y and 10 is 42 '.

- a. $2y + 10 = 42$ b. $y + 10 = 42$ c. $2x = 42$ d. $y + 11 = 3$

7. In an isosceles triangle, the vertex angle is twice either base angle. (Let the base angle be b in degrees. Remember that the sum of angles of a triangle is 180 degrees). Set up an equation.

- a. $x + 2x = 180$ b. $x + 2x + 2x = 180$ c. $4x = 180$ d. $3x = 180$

8. What is n in $3n - 2 = 46$?

- a. 14 b. 15 c. 16 d. 17

9. An _____ is formed when lines or line segments meet.

- a. angle b. ray c. line d. line segment

10. If two _____ are cut by a transversal, each pair of corresponding angles are equal in measure.

- a. lines b. intersecting lines c. parallel lines d. none of these

11. According to Pythagoras property, in a right-angled triangle, the square on the _____ = sum of the squares on the legs.

- a. right angle b. altitude c. hypotenuse d. none of these

12. Determine whether the triangle whose lengths of sides are 3 cm, 4 cm, 5 cm is a _____.

- a. right-angled b. acute-angled c. obtuse-angled d. none of these

13. When $a = 0$, $b = - 1$, find the value of the expressions: $2a^2b + 2ab^2 + ab$.

- a. 0 b. 1 c. 2 d. 3

14. Subtract $a - b$ from $3a - b + 4$.

- a. $3a + 5$ b. $2a + 4$ c. $3a + 4$ d. $2a + 5$

15. Get the algebraic expressions using variables, constants and arithmetic operations. The number x multiplied by itself

- a. $2x$ b. $x + 2$ c. x^2 d. none of these

16. Simplify the expression: $12m^2 - 9m + 5m - 4m^2 - 7m + 10$.

- a. $8m^2 - 11m + 15$ b. $8m^2 - 15m + 10$
c. $9m^2 - 11m + 10$ d. $8m^2 - 11m + 10$

17. If the area of the rectangle is 105 cm^2 . Its length is $(4x - 5)$ cm and breadth is $(2x - 5)$ cm, find the perimeter?

- a. 44 cm b. 55 cm c. 33 cm d. 66 cm

18. How many times a wheel of radius 28 cm must rotate to go 352 m?

- a. 100 Times b. 300 Times c. 200 Times d. none of these

19. A rectangle has a length that is 2 less than 3 times the width. If the area of the rectangle is 16 cm^2 , find the dimensions.

- a. Length = 6 cm, width = 4 cm b. Length = 6cm, width = 5 cm
c. Length = 6cm, width = 3 cm d. Length = 6 cm, width = $2\frac{2}{3}$ cm

20. $0.4 \times 0.02 =$ _____

- a. 0.008 b. 0.0008 c. 0.8 d. 8

Link for more questions for practice:

www.edugain.com

www.softschools.com

www.edurite.com