

CLASS NOTES

Class: VIII

Topic: DRILL WORKSHEET – 3
(OBJECTIVE TYPE QUESTIONS OF PT-4 PORTION)

Subject: MATHEMATICS

DATE : 10.02.21

CHOOSE THE CORRECT OPTION FOR EACH OF THE FOLLOWING :

1. 40% of 50 students of a class are good at Science. How many students are not good at Science ?

- (a) 20
- (b) 30
- (c) 10
- (d) 40.

2. The value of $x^2 - xy + y^2$ when $x = 0$, $y = 1$ is

- (a) 0
- (b) -1
- (c) 1
- (d) none of these.

3. A toy marked at Rs 40 is available for Rs 32. What per cent discount is given on the marked price ?

- (a) 10%
- (b) 20%
- (c) 25%
- (d) 40%.

4. How many terms are there in the expression $5xy^2$?

- (a) 1
- (b) 2
- (c) 5
- (d) 3.

5. Kanti purchased a sewing machine for Rs 2000. She sold it at a loss of 40%. Find the selling price.

- (a) Rs 1200
- (b) Rs 400
- (c) Rs 800
- (d) Rs 2800.

6. The coefficient in the term $-5x$ is

- (a) 5
- (b) -5
- (c) 1
- (d) 2.

7. A shopkeeper purchased 2 refrigerators for Rs 9800 and Rs 8200 respectively. He sold them for Rs 16920. Find loss%.

- (a) 2%
- (b) 4%
- (c) 5%
- (d) 6%.

8. The factorisation of $36x^2y^2 - 1$ is

- (a) $(6xy - 1)(6xy + 1)$
- (b) $(6xy - 1)^2$
- (c) $(6xy + 1)^2$
- (d) $(6 + xy)^2$

9. The simple interest of Rs 500 at the rate of 5% is Rs 100. This interest is of the time.

- (a) 1 year
- (b) 4 years
- (c) 10 years
- (d) 20 years.

10. To construct a square, we need to know:

- A. All the interior angles
- B. All the side lengths
- C. Only one interior angle
- D. Only one side length

11. If we subtract $4a - 7ab + 3b + 12$ from $12a - 9ab + 5b - 3$, then the answer is:

- (a) $8a + 2ab + 2b + 15$
- (b) $8a + 2ab + 2b - 15$
- (c) $8a - 2ab + 2b - 15$
- (d) $8a - 2ab - 2b - 15$

12. The common factor of $a^2 m^4$ and $a^4 m^2$ is

- (a) $a^4 m^4$
- (b) $a^2 m^2$
- (c) $a^2 m^4$
- (d) $a^4 m^2$

13. The base radius and height of a right circular cylinder are 14 cm and 5 cm respectively. Its curved surface is

- (a) 220 cm^2
- (b) 440 cm^2
- (c) 1232 cm^2
- (d) $2\pi \times 14 \times (14 + 5) \text{ cm}^2$

14. The area of a rhombus is 60 cm^2 . One diagonal is 10 cm. The other diagonal is

- (a) 6 cm
- (b) 12 cm
- (c) 3 cm
- (d) 24 cm.

15. If two diagonals are given, then we can construct a:

- A. Rhombus
- B. Rectangle
- C. Kite
- D. Parallelogram

16. The factorisation of $28a^3b^5 - 42a^5b^3$ is

- (a) $14a^3b^3(2b^2 - 3a^2)$
- (b) $14a^2b^3(2b^2 - 3a^2)$
- (c) $14a^3b^2(2b^2 - 3a^2)$
- (d) none of these.

17. The root of the equation $z + 4 = -8$ is

- (a) 3
- (b) -32
- (c) 12
- (d) 4.

18. The ratio of the radii of two right circular cylinders is 1 : 2 and the ratio of their heights is 4 : 1. The ratio of their volumes is

- (a) 1 : 1
- (b) 1 : 2
- (c) 2 : 1
- (d) 4 : 1.

19. 8 persons can stay in a cubical room. Each person requires 27 m^3 of air. The side of the cube is

- (a) 6 m
- (b) 4 m
- (c) 3 m
- (d) 2 m.

20. One number is greater than the other number by 3. The sum of two numbers is 23. The two numbers are

- (a) 13, 10
- (b) 14, 9
- (c) 12, 11
- (d) 15, 8.

21. The factorisation of $4y^2 - 12y + 9$ is

- (a) $(2y + 3)^2$
- (b) $(2y - 3)^2$
- (c) $(3y + 2)^2$
- (d) $(3y - 2)^2$

22. The largest number of the three consecutive numbers is $x + 1$. Then, the smallest number is

- (a) $x + 2$
- (b) $x + 1$
- (c) x
- (d) $x - 1$.

23. How many diagonals does a regular hexagon have ?

- (a) 2 (b) 0 (c) 4 (d) 9

24. The value of

$$0.645 \times 0.645 + 2 \times 0.645 \times 0.355 + 0.355 \times 0.355$$

- (a) 1
- (b) 0
- (c) -1
- (d) 2.

25. Which of the following statement is false ?

- (a) All the four angles of a rhombus are equal
- (b) The diagonals of a rhombus bisect each other at right angles
- (c) A rectangle is a parallelogram
- (d) All squares are rectangles.

26. The base of a prism is:

- (a) Circle (b) Triangle (c) Square (d) Any shape

27. The value of 99^2 is

- (a) $(90)^2 + 2(90)(9) + (9)^2$
- (b) $(90)^2 - 2(90)(9) + (9)^2$
- (c) $(90)^2 + (9)^2$
- (d) none of these.

28. The total surface area of a cylinder of base radius r and height h is

- (a) $2\pi r (r + h)$
- (b) $\pi r (r + h)$
- (c) $2\pi rh$
- (d) $2\pi r^2$.

29. How many vertices does a pyramid with square base have ?

- (a) 5 (b) 4 (c) 3 (d) 6.

30. For a polyhedron, if 'F' stands for number of faces, V stands for number of vertices and E stands for number of edges, then which of the following relationships is named as Euler's formula ?

- (a) $F + V = E + 2$
- (b) $F + E = V + 2$
- (c) $V + E = F + 2$
- (d) $F + V = E - 2$

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NOTE: THE STUDENTS ARE ADVISED TO SOLVE THIS REVISION WORKSHEET TO PREPARE FOR THEIR UPCOMING PT4 EXAMS.

" CONTENT ABSOLUTELY PREPARED FROM HOME "

