

PRACTICE PAPER- 3
2022-23

CLASS:8th Standard
SUBJECT –MATHEMATICS

Max Marks :40
Time :2.00min

I. Four alternatives are given for each of the following questions. choose the correct answer along with the alphabet :

20 X 1 = 20

1. The standard form of 0.0000475 is
a) 4.75×10^5 b) 4.75×10^{-5} c) 4.75×10^6 d) 4.75×10^{-6}
2. $a^2 - b^2$ is equal to
a) $a^2 + b^2$ b) $(a+b)(a+b)$ c) $(a+b)(a-b)$ d) $(a-b)(a-b)$
3. The value of 5^{-3} is
a) $\frac{1}{25}$ b) $\frac{1}{15}$ c) 25 d) 15
4. By what number should 256 be multiplied to get a perfect cube is.....
a) 2 b) 3 c) 5 d) 7
5. By what number should 135 be divided to get a perfect cube is.....
a) 7 b) 3 c) 5 d) 11
6. If a coin is tossed the total number of possible outcomes is
a) 3 b) 4 c) 2 d) 17.
7. A man walks 20 km in 5 hrs. How much time it will take for him to walk 32 kms is
a) 3hrs. b) 4 hrs. c) 6hrs. d) 8hrs.
8. If X & Y are inversely proportional then which of the following is correct is
a) $X + Y = \text{Constant}$ b) $X - Y = \text{Constant}$
c) $X \times Y = \text{Constant}$ d) $X \div Y = \text{Constant}$
9. Example of 3D Figure is
a) Cuboid b) Rectangle c) Square d) Circle
10. The co-ordinate of a Point whose X co-ordinate is 4 and Y co-ordinate is 0 is
a) (4,0) b) (0,4) c) (0,0) d) (4,4)
11. The factorisation of $49x^2 - 36$ is
a) $(7x+6)^2$ b) $(7x-6)(7x+6)$ c) $(7x-6)^2$ d) $7x^2 + 6^2$
12. The CSA of cuboid is
a) $2(bh+hl)$ b) $(bh+hl)$ c) l^2bh d) $6l^2$

13. 1 Liter is equal to cm³

- a) 1000 b) 100 c) 10 d) 1

14. 72% of 25 is

- a) 16 b) 18 c) 12 d) 14

15. The percentage of 3:4 is

- a) 40% b) 50% c) 65% d) 75%

16. On which operation the set of integer in closed is.....

- a) +,-,x b) +,-,÷ c) +,x,÷ d)-,x,÷

17. 3x X 5y is equal to

- a) 3xy b) 15xy c) 5xy d) xy

18. The LCM of 7 & 3 is

- a) 21 b) 7 c) 10 d) 3

19. The cuboid has number of faces.

- a) 12 b) 8 c) 4 d) 6

20. The common factor of 2y & 22xy is

- a) 2y b) 2x c) 2 d) 2xy

II Solve the following :

5 X 2 = 10

21. Find the Cube root of 729 by Factorisation Method

22. Simplify i) $(7^3)^8$ ii) $3^7 \times 3^8$

or

Evaluate $(5^{-1} \times 2^{-1}) \times 6^{-1}$

23. Factorise $x^2 + xy + 8x + 8y$

or

Factorise $63^2 - 112b^2$

24. Match the following

Shapes	Area
Rectangle	$\frac{1}{2} \times b \times h$
Square	$b \times h$
Triangle	$l \times b$
Parallelogram	l^2

25. A car takes 2 hours to reach a destination by travelling at the speed of 60km/hr. How long will it take when the car travels at the speed of 80 km/hr?

or

A machine in a soft drink factory fills 840 bottles in six hours. How many bottles will in fill in five hours?

III. Solve the following question

3 X 2 = 06

26. A VCR and TV were bought for ` 8,000 each. The shopkeeper made a loss of 4% on the VCR and a profit of 8% on the TV. Find the gain or loss percent on the whole transaction.

27. Find the area of a rhombus whose side is 5 cm and whose altitude is 4.8 cm. If one of its diagonals is 8 cm long, find the length of the other diagonal.

Or

The area of trapezium is 34 cm^2 and the length of one of the parallel sides is 10 cm and its height is 4 cm. Find the length of the other parallel side.

IV .Solve the following question

1 X 4 = 04

28. Draw the graph for the following tables of values, with suitable scales on the axes .
Interest of deposits for a year.

Deposit (in Rs)	1000	2000	3000	4000
Simple Interest (in Rs)	80	160	240	320

i) Does the graph pass through the origin?

ii) Use the graph to find the interest on 2500 for a year.