

PRACTICE PAPER 1
2022-23

CLASS:8th Standard
SUBJECT –MATHEMATICS

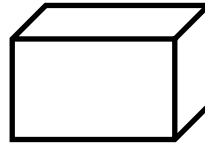
Max Marks :40
Time :2Hours

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 symbol of cube root is
a) $\sqrt[3]{}$ b) $\sqrt[5]{}$ c) $\sqrt[2]{}$ d) $\sqrt[4]{}$
2. $a^m \times a^n =$
a) a^{m-n} b) a^{m+n} c) $a^{m \times n}$ d) $(a \times b)^m$
3. Curved surface area of cylinder is
a) $\pi r h$ b) $l \times b$ c) $\pi r^2 h$ d) $2\pi r h$
4. is the 3 Dimensional solid in the following
a) cuboid b) square c) circle d) triangle
5. If x and y are directly proportional ,then which of the following is correct ?
a) $x+y = \text{constant}$ b) $x-y = \text{constant}$ c) $xy = \text{constant}$ d) $\frac{x}{y} = \text{constant}$
6. The factors of x^2-4 are
a) $(x+2)(x-2)$ b) $(x+2)(x+2)$ c) $(x^2+2)(x^2-2)$ d) $((x-2)(x-2)$
7. The value of a^0
a) -1 b) 1 c) a d) 0
8.gives the number of times that a particular entry occur
a) class interval b) width c) raw data d) frequency
9. A boy runs 1km in 10minutes .How long will he take to run 600m
a) 2minutes b) 3minutes c) 4minutes d) 6minutes
10. What are the co-ordinates of a point whose 'x' co-ordinate is 0 and y co-ordinate is 1
a) (0 ,1) b) (0 ,0) c) (1 ,0) d) (1 ,1)
11. The factorization of $12x + 48$ is
a) $12(x+48)$ b) $12(x + 4)$ c) $12(4x + 1)$ d) $x(12 + 48)$
12. The Euler's formula is
a) $F - V + E = 2$ b) $F + V + E = 2$ c) $F + V - E = 2$ d) $F - V + E = 2$
13. 12% of 480 is
a) 4 b) 480 c) 12 d) 40
14. The volume of cube of side 5cm is.....
a) 125cm^3 b) 25cm^3 c) 125cm^2 d) 15cm^3

15. The name of the solid is



- a) cone b) cylinder c) cuboid d) cube

16. number of faces does cube have

- a) 4 b) 8 c) 6 d) 3

17. The standard form of 0.0000000875 is.....

- a) 8.75×10^{-8} b) 8.75×10^{-9} c) 8.75×10^9 d) 8.75×10^8

18. When a coin is tossed, the possible outcomes is

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

19. By what number should 81 be divided to get a perfect cube?

- a) 9 b) 7 c) 6 d) 3

20. The percentage of 1:4 is

- a) 75% b) 50% c) 25% d) 100%

II Solve the following :

5 X 2 = 10

21. Factorise the expressions $x^2 - 4x - 12$

Or

Factorise the expressions and divide them as directed $(y^2 + 7y + 10) \div (y + 5)$

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

Or

Suppose 2 kg of crystals contains 9×10^6 crystals. How many sugar crystals are there in 5kg of sugar

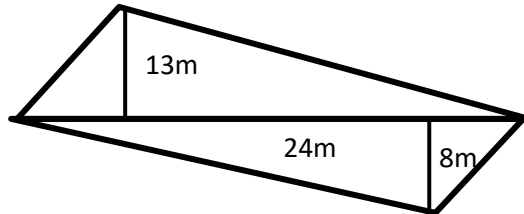
23. Draw a pie chart showing the information. The table shows the colours preferred by a group of people .

Colours	Number of people
Blue	18
Green	9
Red	6
Yellow	3
Total	36

24. A milk tank is in the form of cylinder whose radius is 1.5m and length is 7m .Find the quantity of milk in litres that can be stored in the tank ?

Or

The diagonal of a quadrilateral shaped field is 24m and perpendiculars dropped on it from the remaining opposite vertices are 8m and 13m .Find the area of the field



25. Find compound interest when a sum of Rs 10800 is invested for 3 years at $8\frac{1}{2}\%$ per annum compound annually ?

IV. Solve the following question

3 X 2 = 06

26. Simplify $\frac{512 \times 9^3 \times 4}{27 \times 6^3 \times 8^2}$

Or

When a die is thrown once find the probability of

- a) a prime number
- b) a number less than 5
- c) a number greater than 6

27. A VCR and TV were bought for 8000 each .The shopkeeper made a loss of 4% on the VCR and a profit of 8% on TV . Find the gain or loss percent on the whole transaction?

V. Solve the following question

1 X 4 = 04

28. Draw a graph for the following tables with suitable scales on the axes .

Distance travelled by a car

Time (in hours)	6 a.m.	7 a.m.	8 a.m.	9 a.m.
Distances (in km)	40	80	120	160

- a) How much distance did the car cover during the period 7.30a.m to 8 a.m.
- b) What was the time taken when a car had covered a distance of 100km since it's start?