

MATHEMATICS
SAMPLE TEST PAPER (SEMSTER I)
CLASS VIII

Class:8
Time :2hrs

Max Mks:45
No of pages: 2

General Instructions:

- ▲ All questions are compulsory.
- ▲ Questions 1 to 5 carry 1 mark each.
- ▲ Questions 6 to 16 carry 2 mark each.
- ▲ Questions 17 to 22 carry 3 mark each.

1. Represent the number in number line system $4\frac{2}{3}$
2. $(92)^3 = \underline{\hspace{2cm}}$
3. Factorise $z^2 - 121$
4. 20% of $\underline{\hspace{1cm}} = 550$
5. 5 oranges cost Rs 80 how many oranges can be bought for Rs 320
6. subtract $\frac{-8}{9}$ from $\frac{2}{3}$
7. Find the value of $(\frac{5}{8})^{-1}$
8. Evaluate $(\frac{5}{3})^{-3} \times (\frac{4}{6})^{-2}$
9. find $(35) \times (98)$
10. Find the square root of 1589
11. Find the smallest number by which 1323 must be multiplied so that the product is a perfect cube.
12. Replace ABC by suitable numerals

57A
CB8

293

13. Add $8x^2 + 9y^2 + 5xy$, $-2x^2 - 6y^2 + 4xy$ and $9x^2 - 6y^2 - 8xy$
14. Expand $(3x + 6y)^2$
15. Factorise $4x^2 + 9y^2 + 12xy$
16. Rani sold two sarees for Rs 5123 each. On one she lost 6% while on the other she gained 20%. Find her gain or loss percent in the whole transaction.
17. Arun borrowed Rs 450000 at $8\frac{1}{2}$ per annum simple interest. On the same day he lent it to Gurmeet at the same rate but compounded annually. What does he gain at the end of 3 years?
18. At a cricket test match $\frac{2}{9}$ of the spectators were in a covered place while 18000 were in open. Find the total number of spectators

19. Evaluate $\sqrt{0.98}$ correct up to two places of decimals.
20. Find the quotient and remainder when $(7+51x-13x^2+5x^3)$ is divided by $(5 - 4x+x^2)$
21. Find three consecutive even number whose sum c 284
22. A's income is 80% more than that of B. By what percent is B's income less than A's