

Grade 8 Math: Complete Study Guide

Concepts & Explanation

Understanding rational, irrational, and real numbers.

Laws of exponents and their applications.

Prime factorization, LCM, and HCF calculations.

Concept of significant figures and scientific notation.

Operations with surds and indices.

Examples with stepwise solutions.

Practice Questions:

1. Simplify: $(3^5 \times 3^2) / (3^3)$.
2. Express $(27^{(1/3)} \times 8^{(1/3)})$ in simplified form.
3. Solve for x : $5^{(x+1)} = 125$.
4. Convert $0.272727\ldots$ into a fraction.
5. Prove that the sum of a rational and an irrational number is irrational.
6. Find the unit digit of 9^{25} .
7. Find the smallest number that must be multiplied to 180 to make it a perfect square.
8. Express $256^{(3/4)}$ in simplest form.
9. Find the remainder when 7^{100} is divided by 5.
10. Solve: $(81^{(1/4)} \times 16^{(1/4)}) / (9^{(1/2)})$.
11. Find the missing term in the sequence: 3, 6, 12, __, 48, 96.
12. Prove that $5^{(1/2)} + 2^{(1/2)}$ is irrational.
13. Find the LCM and HCF of 180 and 225 using prime factorization.
14. Find the largest four-digit number that is a perfect cube.
15. Find the last two digits of 8^{20} .
16. Find the sum of all prime numbers between 1 and 50.
17. Evaluate: $(64^{0.5} + 36^{0.5}) / (100^{0.5} - 16^{0.5})$.
18. Find the number of factors of 1200.
19. Prove that there are infinitely many prime numbers.
20. Find the remainder when 3^{40} is divided by 7.
21. If $a = 2^{(1/3)}$ and $b = 2^{(1/6)}$, express $(a/b)^6$ in simplest form.
22. Express $343^{(2/3)}$ in simplest form.
23. Find the number of trailing zeros in 500.
24. Find the largest 3-digit number that is a perfect square.
25. Find the unit digit of $(13^{27} + 17^{35})$.
26. Find the greatest integer less than $(7^{0.5} + 5^{0.5})^2$.

Grade 8 Math Study Guide Answers Key

ML Morrison



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