



VIDYA BHAWAN, BALIKA VIDYAPITH

Shakti Utthan Ashram, Lakhisarai-811311(Bihar)

(Affiliated to CBSE up to +2 Level)

CLASS: VIII

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SUB.: MATHEMATICS

Important Questions

Short Answer Type Questions

1. Find the value of $(4^0 + 4^{-1}) \times 2^2$
2. Solve 3^{-4} and $(\frac{1}{2})^{-2}$
3. Simplify the following expression and express the result in positive power notation: $(-4)^5 \div (-4)^8$
4. Evaluate $a^2 \times a^3 \times a^{-5}$
5. Express 4^{-3} as a power with base 2.

Long Answer Type Questions

6. Evaluate $(\sqrt{4})^{-3}$
 7. Find the value of x for which $2^x \div 2^{-4} = 4^5$
 8. Calculate the missing value of "x" in the following expression: $(\frac{11}{9})^3 \times (\frac{9}{11})^6 = (\frac{11}{9})^{2x-1}$
 9. 5 books and 5 paper sheets are placed in a stack. Find the total thickness of the stack if each book has a thickness of 20 mm and each sheet has a thickness of 0.016 mm.
 10. If a new-born bear weighs 4kg, calculate how many kilograms a five-year-old bear weigh if its weight increases by the power of 2 in 5 years?
- Q.11: Simplify $[25 \times t^{-4}] / [5^{-3} \times 10 \times t^{-8}]$
- Q.12: Express 0.00000000837 in standard form.
- Q.13: Write 3.61492×10^6 in usual form.

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