



# VIDYA BHAWAN, BALIKA VIDYAPITH

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(Affiliated to CBSE up to +2 Level)

CLASS: VIII

SUB.: MATHS (NCERT BASED)

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## POWER AND EXPONENT (REVISION)

1. Find the value of:  $\left(\frac{1}{4}\right)^{-2} + \left(\frac{1}{3}\right)^{-3} + \left(\frac{1}{2}\right)^{-4}$
2. Simplify:  $\left[\left(\frac{-4}{5}\right)^{-2}\right]^2$
3. What is the reciprocal of 0.1?
4. Can be  $\frac{a^m}{b^m}$  equal to  $\left(\frac{a}{b}\right)^m$ ?
5. Simplify  $(1 / 3^2)^3$ .
6. Evaluate:  $(5^{-1} \times 8^2) / (2^{-3} \times 10^{-1})$ .
7. Find the value of 'm' for which  $6^m / 6^{-3} = 6^5$ ?
8. Evaluate  $[(1/2)^{-1} - (1/3)^{-1}]^{-1}$ .
9. Simplify:  $(-3)^5 \times (5/3)^5$ .
10. Compare  $7 \times 10^{-6}$  and  $129 \times 10^{-7}$ .
11. The size of a plant cell is 0.00001275 m. express it in standard form.
12. If the thickness of a paper sheet is 0.0016 cm, find the thickness of 100 sheets. Express the answer in standard form.