

CLASS 8 · HOTS · OLYMPIAD PREPARATION · DPP SHEET

Chapter 4: HOTS: Power Play (Class 8)

Daily practice problems: 8 questions with an answer key

Try every question on your own first. The answer key is on the last page.

1. Simplify $\frac{3^2 \times 3^4}{3^3}$.
2. Find the value of $\left(\frac{2}{3}\right)^{-3}$.
3. Write 0.00032 in scientific notation.
4. Find x if $2^{x+1} = 32$.
5. Simplify $9^2 \times 3^{-4}$.
6. Find $(-2)^5$ and $(-2)^{-3}$.
7. Write 6 400 000 in scientific notation.
8. Simplify $10^{-2} \times 10^5$.

Answer Key

1. 27.

2. $\frac{27}{8}$.

3. 3.2×10^{-4} .

4. $x = 4$.

5. 1.

6. -32 and $-\frac{1}{8}$.

7. 6.4×10^6 .

8. $10^3 = 1000$.

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