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Simplifying exponential expressions worksheet - 1

1. Simplify the expression: $3^5 + 4^3$

2. Simplify : $(-2)^7 - (-5)^2$.

3. Simplify : $\frac{12^2 - 3^2}{3}$.

4. Write the following as a single exponent using properties of exponents.

$$(-3)^2 \times (-3)^5$$

5. Simplify the following and express the answer as an exponent.

$$(x^2)^3 \times x^5$$

6. Simplify the following expression using the properties of exponents.

$$\left(\frac{1}{2}x^2y^3\right)^3$$

7. Simplify $\frac{1.5 \times 10^{-6}}{2.5 \times 10^8}$ and express the answer in scientific notation.

8. Simplify : $3^2 + (-5)^3 - 2^2$.

9. Simplify the expression : $\left| \left(\frac{1}{2}\right)^3 - \left(\frac{1}{3}\right)^2 \right|$.

10. Simplify $(3.8 \times 10^7) - (1.42 \times 10^6)$ and express the answer in scientific notation.

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"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

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