

Exponential Expressions: Multiplying and Dividing



Section A

Find the values.

1) 3^0

2) $(-2)^3$

3) $(-1)^{20}$

4) 7^3

5) $(-5)^3 + (-4)^2$

6) $\left(\frac{3}{4}\right)^2$

Section B

Simplify.

1) $5^2 \times 5^4 = 5^6$

2) $9^{11} \times 9^2$

3) $2^5 \times 2$

4) $8^5 \times 8^0$

5) $7^5 \div 7^3$

6) $12^{10} \div 12^5$

7) $4^{21} \div 4$

8) $5^3 \div 5^3$

9) $2^{-3} \times 2^5$

10) $6^4 \div 6^{12}$

11) $15^2 \times 15^{-9}$

12) $7^{10} \div 7^{14} \times 7$

Section C

Simplify.

1) $\frac{2^{10}}{2^4}$

2) $\frac{8^{-1}}{8^2}$

3) $\frac{10^{-12}}{10^7}$

4) $\frac{3^{-6}}{3^{-1}}$

5) $\frac{3^3 \times 3^5}{3^2}$

6) $\frac{6^{-2} \times 6^4}{6^{-5}}$

7) $\frac{7^{-6} \times 7^{-7}}{7^{-4}}$

8) $\frac{14^{-3}}{14^{-11} \times 14^{-10}}$

9) $\frac{4^5 \times 4^5}{4^2 \times 4^4}$

10) $\frac{6^{-7} \times 6^3}{6^{-1} \times 6}$

11) $\frac{20^{-17} \times 20^9}{20^4 \times 20^{-11}}$

12) $\frac{5e^9 \times 4e^5}{2e^2 \times 10e^4}$

Extension

Investigate the following:

$(2^1)^2 = 2^1 \times 2^1 = 2^2$

$(2^2)^2 =$

$(2^3)^2 =$

$(2^4)^2 =$

$(2^5)^2 =$

$(5^1)^3 = 5^1 \times 5^1 \times 5^1 = 5^3$

$(5^2)^3 =$

$(5^3)^3 =$

$(5^4)^3 =$

$(5^5)^3 =$

Use your results to simplify:

$(4^2)^4 =$

$(6^3)^5 =$

$(9^{-5})^6 =$

$(11^{-2})^{-7} =$

Multiplying And Dividing Exponents Practice

Jin-Ying Zhang



Multiplying And Dividing Exponents Practice:

Multiplying And Dividing Exponents Practice Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Multiplying And Dividing Exponents Practice**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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