

# 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

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## **Multiplying And Dividing Exponents Practice:**

## The Enigmatic Realm of **Multiplying And Dividing Exponents Practice**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Multiplying And Dividing Exponents Practice** a literary masterpiece penned with a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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