

Dividing Exponents (J)

Simplify each expression.

1. $\frac{9^9}{9^9}$

2. $\frac{4^4}{4^3}$

3. $\frac{2^8}{2^6}$

4. $\frac{7^9}{7^6}$

5. $\frac{2^7}{2^3}$

6. $\frac{7^5}{7^4}$

7. $\frac{5^3}{5^3}$

8. $\frac{8^1}{8^1}$

9. $\frac{3^2}{3^0}$

10. $\frac{4^5}{4^2}$

Dividing Exponents (J) Answers

Simplify each expression.

$$\begin{aligned} 1. \quad & \frac{9^9}{9^9} \\ & = 9^0 = 1 \end{aligned}$$

$$\begin{aligned} 2. \quad & \frac{4^4}{4^3} \\ & = 4 \end{aligned}$$

$$\begin{aligned} 3. \quad & \frac{2^8}{2^6} \\ & = 2^2 \end{aligned}$$

$$\begin{aligned} 4. \quad & \frac{7^9}{7^6} \\ & = 7^3 \end{aligned}$$

$$\begin{aligned} 5. \quad & \frac{2^7}{2^3} \\ & = 2^4 \end{aligned}$$

$$\begin{aligned} 6. \quad & \frac{7^5}{7^4} \\ & = 7 \end{aligned}$$

$$\begin{aligned} 7. \quad & \frac{5^3}{5^3} \\ & = 5^0 = 1 \end{aligned}$$

$$\begin{aligned} 8. \quad & \frac{8^1}{8^1} \\ & = 8^0 = 1 \end{aligned}$$

$$\begin{aligned} 9. \quad & \frac{3^2}{3^0} \\ & = 3^2 \end{aligned}$$

$$\begin{aligned} 10. \quad & \frac{4^5}{4^2} \\ & = 4^3 \end{aligned}$$