

Dividing Exponents (A)

Simplify each expression.

1. $\frac{4^6}{4^2}$

2. $\frac{4^8}{4^2}$

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

4. $\frac{8^6}{8^1}$

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

6. $\frac{7^6}{7^1}$

7. $\frac{7^2}{7^1}$

8. $\frac{9^8}{9^4}$

9. $\frac{4^5}{4^4}$

10. $\frac{8^3}{8^3}$

Dividing Exponents (A) Answers

Simplify each expression.

$$\begin{aligned} 1. \quad & \frac{4^6}{4^2} \\ & = 4^4 \end{aligned}$$

$$\begin{aligned} 2. \quad & \frac{4^8}{4^2} \\ & = 4^6 \end{aligned}$$

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

$$\begin{aligned} 4. \quad & \frac{8^6}{8^1} \\ & = 8^5 \end{aligned}$$

$$\begin{aligned} 5. \quad & \frac{3^4}{3^4} \\ & = 3^0 = 1 \end{aligned}$$

$$\begin{aligned} 6. \quad & \frac{7^6}{7^1} \\ & = 7^5 \end{aligned}$$

$$\begin{aligned} 7. \quad & \frac{7^2}{7^1} \\ & = 7 \end{aligned}$$

$$\begin{aligned} 8. \quad & \frac{9^8}{9^4} \\ & = 9^4 \end{aligned}$$

$$\begin{aligned} 9. \quad & \frac{4^5}{4^4} \\ & = 4 \end{aligned}$$

$$\begin{aligned} 10. \quad & \frac{8^3}{8^3} \\ & = 8^0 = 1 \end{aligned}$$