

Dividing Exponents (A)

Simplify each expression.

1. $\frac{5^8}{5^8}$

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

3. $\frac{6^2}{6^7}$

4. $\frac{4^2}{4^7}$

5. $\frac{7^1}{7^5}$

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

7. $\frac{2^4}{2^9}$

8. $\frac{3^1}{3^3}$

9. $\frac{2^2}{2^5}$

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

Dividing Exponents (A) Answers

Simplify each expression.

1. $\frac{5^8}{5^8}$

$$= 5^0 = 1$$

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

$$= 2^0 = 1$$

3. $\frac{6^2}{6^7}$

$$= 6^{-5} = \frac{1}{6^5}$$

4. $\frac{4^2}{4^7}$

$$= 4^{-5} = \frac{1}{4^5}$$

5. $\frac{7^1}{7^5}$

$$= 7^{-4} = \frac{1}{7^4}$$

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

$$= 7^{-1} = \frac{1}{7}$$

7. $\frac{2^4}{2^9}$

$$= 2^{-5} = \frac{1}{2^5}$$

8. $\frac{3^1}{3^3}$

$$= 3^{-2} = \frac{1}{3^2}$$

9. $\frac{2^2}{2^5}$

$$= 2^{-3} = \frac{1}{2^3}$$

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

$$= 7^0 = 1$$