

# Dividing Exponents (G)

Simplify each expression.

1.  $\frac{6^5}{6^8}$

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

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

4.  $\frac{3^0}{3^0}$

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

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

7.  $\frac{6^8}{6^9}$

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

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

10.  $\frac{9^6}{9^6}$

## Dividing Exponents (G) Answers

Simplify each expression.

1.  $\frac{6^5}{6^8}$

$$= 6^{-3} = \frac{1}{6^3}$$

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

$$= 4^0 = 1$$

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

$$= 4^0 = 1$$

4.  $\frac{3^0}{3^0}$

$$= 3^0 = 1$$

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

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

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

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

7.  $\frac{6^8}{6^9}$

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

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

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

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

$$= 5^0 = 1$$

10.  $\frac{9^6}{9^6}$

$$= 9^0 = 1$$