

## Dividing Exponents (C)

Simplify each expression.

1.  $\frac{(-7)^3}{(-7)^{-3}}$

2.  $\frac{(-4)^4}{(-4)^{-2}}$

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

4.  $\frac{(-5)^0}{(-5)^{-8}}$

5.  $\frac{(-4)^{-7}}{(-4)^{-8}}$

6.  $\frac{(-4)^8}{(-4)^{-2}}$

7.  $\frac{(-4)^8}{(-4)^{-7}}$

8.  $\frac{8^{-6}}{8^{-8}}$

9.  $\frac{(-8)^{-3}}{(-8)^{-3}}$

10.  $\frac{(-9)^{-2}}{(-9)^{-4}}$

## Dividing Exponents (C) Answers

Simplify each expression.

$$\begin{aligned} 1. \quad & \frac{(-7)^3}{(-7)^{-3}} \\ & = (-7)^6 \end{aligned}$$

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

$$\begin{aligned} 3. \quad & \frac{5^1}{5^{-7}} \\ & = 5^8 \end{aligned}$$

$$\begin{aligned} 4. \quad & \frac{(-5)^0}{(-5)^{-8}} \\ & = (-5)^8 \end{aligned}$$

$$\begin{aligned} 5. \quad & \frac{(-4)^{-7}}{(-4)^{-8}} \\ & = (-4) \end{aligned}$$

$$\begin{aligned} 6. \quad & \frac{(-4)^8}{(-4)^{-2}} \\ & = (-4)^{10} \end{aligned}$$

$$\begin{aligned} 7. \quad & \frac{(-4)^8}{(-4)^{-7}} \\ & = (-4)^{15} \end{aligned}$$

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

$$\begin{aligned} 9. \quad & \frac{(-8)^{-3}}{(-8)^{-3}} \\ & = (-8)^0 = 1 \end{aligned}$$

$$\begin{aligned} 10. \quad & \frac{(-9)^{-2}}{(-9)^{-4}} \\ & = (-9)^2 \end{aligned}$$