

# 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.

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

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

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

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

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

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

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

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

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

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

## Dividing Exponents (B)

Simplify each expression.

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

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

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

4.  $\frac{9^5}{9^1}$

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

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

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

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

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

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

## Dividing Exponents (B) Answers

Simplify each expression.

$$1. \frac{2^8}{2^2}$$

$$= 2^6$$

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

$$= 5^2$$

$$3. \frac{8^4}{8^4}$$

$$= 8^0 = 1$$

$$4. \frac{9^5}{9^1}$$

$$= 9^4$$

$$5. \frac{2^7}{2^6}$$

$$= 2$$

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

$$= 4$$

$$7. \frac{9^2}{9^0}$$

$$= 9^2$$

$$8. \frac{7^2}{7^1}$$

$$= 7$$

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

$$= 6^3$$

$$10. \frac{2^3}{2^2}$$

$$= 2$$

# Dividing Exponents (C)

Simplify each expression.

1.  $\frac{7^2}{7^0}$

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

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

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

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

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

7.  $\frac{8^2}{8^0}$

8.  $\frac{7^2}{7^0}$

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

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

## Dividing Exponents (C) Answers

Simplify each expression.

$$1. \frac{7^2}{7^0}$$

$$= 7^2$$

$$2. \frac{6^9}{6^9}$$

$$= 6^0 = 1$$

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

$$= 8^0 = 1$$

$$4. \frac{7^2}{7^1}$$

$$= 7$$

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

$$= 2^2$$

$$6. \frac{5^9}{5^5}$$

$$= 5^4$$

$$7. \frac{8^2}{8^0}$$

$$= 8^2$$

$$8. \frac{7^2}{7^0}$$

$$= 7^2$$

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

$$= 9^0 = 1$$

$$10. \frac{5^8}{5^1}$$

$$= 5^7$$

# Dividing Exponents (D)

Simplify each expression.

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

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

3.  $\frac{9^4}{9^3}$

4.  $\frac{2^3}{2^1}$

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

6.  $\frac{2^8}{2^5}$

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

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

9.  $\frac{6^1}{6^0}$

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

# Dividing Exponents (D) Answers

Simplify each expression.

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

$$= 2^5$$

$$2. \frac{9^9}{9^8}$$

$$= 9$$

$$3. \frac{9^4}{9^3}$$

$$= 9$$

$$4. \frac{2^3}{2^1}$$

$$= 2^2$$

$$5. \frac{9^6}{9^3}$$

$$= 9^3$$

$$6. \frac{2^8}{2^5}$$

$$= 2^3$$

$$7. \frac{4^6}{4^1}$$

$$= 4^5$$

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

$$= 8^2$$

$$9. \frac{6^1}{6^0}$$

$$= 6$$

$$10. \frac{6^1}{6^1}$$

$$= 6^0 = 1$$



# Dividing Exponents (E)

Simplify each expression.

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

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

3.  $\frac{6^1}{6^0}$

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

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

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

7.  $\frac{9^1}{9^0}$

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

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

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

# Dividing Exponents (E) Answers

Simplify each expression.

$$\begin{aligned} 1. \quad & \frac{8^3}{8^2} \\ & = 8 \end{aligned}$$

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

$$\begin{aligned} 3. \quad & \frac{6^1}{6^0} \\ & = 6 \end{aligned}$$

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

$$\begin{aligned} 5. \quad & \frac{3^8}{3^6} \\ & = 3^2 \end{aligned}$$

$$\begin{aligned} 6. \quad & \frac{5^3}{5^2} \\ & = 5 \end{aligned}$$

$$\begin{aligned} 7. \quad & \frac{9^1}{9^0} \\ & = 9 \end{aligned}$$

$$\begin{aligned} 8. \quad & \frac{4^7}{4^4} \\ & = 4^3 \end{aligned}$$

$$\begin{aligned} 9. \quad & \frac{5^5}{5^3} \\ & = 5^2 \end{aligned}$$

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

# Dividing Exponents (F)

Simplify each expression.

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

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

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

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

5.  $\frac{3^8}{3^0}$

6.  $\frac{9^4}{9^0}$

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

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

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

10.  $\frac{8^5}{8^4}$

# Dividing Exponents (F) Answers

Simplify each expression.

$$1. \frac{4^3}{4^0}$$

$$= 4^3$$

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

$$= 7^0 = 1$$

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

$$= 9^0 = 1$$

$$4. \frac{2^9}{2^0}$$

$$= 2^9$$

$$5. \frac{3^8}{3^0}$$

$$= 3^8$$

$$6. \frac{9^4}{9^0}$$

$$= 9^4$$

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

$$= 4^0 = 1$$

$$8. \frac{4^4}{4^3}$$

$$= 4$$

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

$$= 8^0 = 1$$

$$10. \frac{8^5}{8^4}$$

$$= 8$$

# Dividing Exponents (G)

Simplify each expression.

1.  $\frac{7^3}{7^0}$

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

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

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

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

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

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

8.  $\frac{3^8}{3^4}$

9.  $\frac{8^9}{8^3}$

10.  $\frac{4^1}{4^1}$

# Dividing Exponents (G) Answers

Simplify each expression.

$$1. \frac{7^3}{7^0}$$

$$= 7^3$$

$$2. \frac{4^7}{4^6}$$

$$= 4$$

$$3. \frac{5^7}{5^4}$$

$$= 5^3$$

$$4. \frac{5^1}{5^1}$$

$$= 5^0 = 1$$

$$5. \frac{3^4}{3^0}$$

$$= 3^4$$

$$6. \frac{3^1}{3^1}$$

$$= 3^0 = 1$$

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

$$= 4^0 = 1$$

$$8. \frac{3^8}{3^4}$$

$$= 3^4$$

$$9. \frac{8^9}{8^3}$$

$$= 8^6$$

$$10. \frac{4^1}{4^1}$$

$$= 4^0 = 1$$

# Dividing Exponents (H)

Simplify each expression.

1.  $\frac{8^2}{8^0}$

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

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

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

5.  $\frac{8^7}{8^2}$

6.  $\frac{5^9}{5^3}$

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

8.  $\frac{9^6}{9^5}$

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

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

# Dividing Exponents (H) Answers

Simplify each expression.

$$1. \frac{8^2}{8^0}$$

$$= 8^2$$

$$2. \frac{8^3}{8^1}$$

$$= 8^2$$

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

$$= 2^2$$

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

$$= 4^0 = 1$$

$$5. \frac{8^7}{8^2}$$

$$= 8^5$$

$$6. \frac{5^9}{5^3}$$

$$= 5^6$$

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

$$= 5^2$$

$$8. \frac{9^6}{9^5}$$

$$= 9$$

$$9. \frac{3^5}{3^4}$$

$$= 3$$

$$10. \frac{7^6}{7^4}$$

$$= 7^2$$



# Dividing Exponents (I)

Simplify each expression.

1.  $\frac{9^9}{9^0}$

2.  $\frac{2^8}{2^1}$

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

4.  $\frac{6^1}{6^0}$

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

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

7.  $\frac{3^9}{3^8}$

8.  $\frac{4^6}{4^0}$

9.  $\frac{7^2}{7^0}$

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

# Dividing Exponents (I) Answers

Simplify each expression.

$$1. \frac{9^9}{9^0}$$

$$= 9^9$$

$$2. \frac{2^8}{2^1}$$

$$= 2^7$$

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

$$= 5^0 = 1$$

$$4. \frac{6^1}{6^0}$$

$$= 6$$

$$5. \frac{2^3}{2^0}$$

$$= 2^3$$

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

$$= 9^0 = 1$$

$$7. \frac{3^9}{3^8}$$

$$= 3$$

$$8. \frac{4^6}{4^0}$$

$$= 4^6$$

$$9. \frac{7^2}{7^0}$$

$$= 7^2$$

$$10. \frac{4^6}{4^2}$$

$$= 4^4$$

# 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.

$$1. \frac{9^9}{9^9} \\ = 9^0 = 1$$

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

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

$$4. \frac{7^9}{7^6} \\ = 7^3$$

$$5. \frac{2^7}{2^3} \\ = 2^4$$

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

$$7. \frac{5^3}{5^3} \\ = 5^0 = 1$$

$$8. \frac{8^1}{8^1} \\ = 8^0 = 1$$

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

$$10. \frac{4^5}{4^2} \\ = 4^3$$