

Dividing Exponents (F)

Simplify each expression.

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

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

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

4. $\frac{8^0}{8^9}$

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

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

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

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

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

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

Dividing Exponents (F) Answers

Simplify each expression.

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

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

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

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

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

$$= 7^0 = 1$$

$$4. \frac{8^0}{8^9}$$

$$= 8^{-9} = \frac{1}{8^9}$$

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

$$= 9^{-7} = \frac{1}{9^7}$$

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

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

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

$$= 7^{-2} = \frac{1}{7^2}$$

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

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

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

$$= 9^{-1} = \frac{1}{9}$$

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

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