

Multiplying Exponents (C)

Simplify each expression.

1. $(-8)^0 \cdot 7^0$

2. $9^2 \cdot 3^2$

3. $(-8)^0 \cdot 6^0$

4. $6^{-9} \cdot (-8)^{-9}$

5. $(-7)^6 \cdot (-2)^6$

6. $(-4)^3 \cdot 3^3$

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

8. $7^{-4} \cdot 3^{-4}$

9. $7^1 \cdot 6^1$

10. $3^{-9} \cdot (-9)^{-9}$

Multiplying Exponents (C) Answers

Simplify each expression.

1. $(-8)^0 \cdot 7^0$

$$= (-56)^0 = 1$$

2. $9^2 \cdot 3^2$

$$= 27^2$$

3. $(-8)^0 \cdot 6^0$

$$= (-48)^0 = 1$$

4. $6^{-9} \cdot (-8)^{-9}$

$$= (-48)^{-9} = \frac{1}{(-48)^9}$$

5. $(-7)^6 \cdot (-2)^6$

$$= 14^6$$

6. $(-4)^3 \cdot 3^3$

$$= (-12)^3$$

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

$$= (-32)^{-4} = \frac{1}{(-32)^4}$$

8. $7^{-4} \cdot 3^{-4}$

$$= 21^{-4} = \frac{1}{21^4}$$

9. $7^1 \cdot 6^1$

$$= 42$$

10. $3^{-9} \cdot (-9)^{-9}$

$$= (-27)^{-9} = \frac{1}{(-27)^9}$$