

Multiplying Exponents (E)

Simplify each expression.

1. $5^2 \cdot 5^0$

2. $8^{-4} \cdot 8^5$

3. $7^{-3} \cdot 7^2$

4. $(-9)^8 \cdot (-9)^0$

5. $(-2)^{-3} \cdot (-2)^9$

6. $3^{-7} \cdot 3^1$

7. $6^{-6} \cdot 6^{-2}$

8. $(-5)^0 \cdot (-5)^3$

9. $3^6 \cdot 3^9$

10. $8^{-2} \cdot 8^6$

Multiplying Exponents (E) Answers

Simplify each expression.

1. $5^2 \cdot 5^0$

$$= 5^2$$

2. $8^{-4} \cdot 8^5$

$$= 8$$

3. $7^{-3} \cdot 7^2$

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

4. $(-9)^8 \cdot (-9)^0$

$$= (-9)^8$$

5. $(-2)^{-3} \cdot (-2)^9$

$$= (-2)^6$$

6. $3^{-7} \cdot 3^1$

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

7. $6^{-6} \cdot 6^{-2}$

$$= 6^{-8} = \frac{1}{6^8}$$

8. $(-5)^0 \cdot (-5)^3$

$$= (-5)^3$$

9. $3^6 \cdot 3^9$

$$= 3^{15}$$

10. $8^{-2} \cdot 8^6$

$$= 8^4$$