

Multiplying Exponents (G)

Simplify each expression.

1. $6^{-5} \cdot 6^0$

2. $(-7)^{-9} \cdot (-7)^4$

3. $5^5 \cdot 5^2$

4. $2^6 \cdot 2^{-8}$

5. $5^{-7} \cdot 5^{-3}$

6. $(-4)^0 \cdot (-4)^{-6}$

7. $2^5 \cdot 2^9$

8. $2^1 \cdot 2^7$

9. $5^5 \cdot 5^{-1}$

10. $(-5)^{-1} \cdot (-5)^1$

Multiplying Exponents (G) Answers

Simplify each expression.

1. $6^{-5} \cdot 6^0$

$$= 6^{-5} = \frac{1}{6^5}$$

2. $(-7)^{-9} \cdot (-7)^4$

$$= (-7)^{-5} = \frac{1}{(-7)^5}$$

3. $5^5 \cdot 5^2$

$$= 5^7$$

4. $2^6 \cdot 2^{-8}$

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

5. $5^{-7} \cdot 5^{-3}$

$$= 5^{-10} = \frac{1}{5^{10}}$$

6. $(-4)^0 \cdot (-4)^{-6}$

$$= (-4)^{-6} = \frac{1}{(-4)^6}$$

7. $2^5 \cdot 2^9$

$$= 2^{14}$$

8. $2^1 \cdot 2^7$

$$= 2^8$$

9. $5^5 \cdot 5^{-1}$

$$= 5^4$$

10. $(-5)^{-1} \cdot (-5)^1$

$$= (-5)^0 = 1$$