



Solve each problem using the laws of exponents.

1) $(\frac{1}{2})^4 =$ _____ = _____

2) $(3 \times 2)^2 =$ _____ = _____

3) $2^1 =$ _____ = _____

4) $3^2 \times 3^{-4} =$ _____ = _____

5) $(\frac{1}{2})^2 =$ _____ = _____

6) $2^{-3} \times 2^4 =$ _____ = _____

7) $2^4 \times 2^3 =$ _____ = _____

8) $2^0 =$ _____ = _____

9) $3^3 \times 3^4 =$ _____ = _____

10) $2^0 =$ _____ = _____

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____





Solve each problem using the laws of exponents.

1) $(\frac{1}{2})^4 = \frac{1}{2^4} = \frac{1}{16}$

2) $(3 \times 2)^2 = 3^2 \times 2^2 = 36$

3) $2^1 = 2 = 2$

4) $3^2 \times 3^{-4} = 3^{2-4} = \frac{1}{9}$

5) $(\frac{1}{2})^2 = \frac{1}{2^2} = \frac{1}{4}$

6) $2^{-3} \times 2^4 = 2^{-3+4} = 2$

7) $2^4 \times 2^3 = 2^{4+3} = 128$

8) $2^0 = 1 = 1$

9) $3^3 \times 3^4 = 3^{3+4} = 2,187$

10) $2^0 = 1 = 1$

Answers

1. $\frac{1}{16}$

2. **36**

3. **2**

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

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

6. **2**

7. **128**

8. **1**

9. **2,187**

10. **1**

