



Solve each problem using the laws of exponents.

Answers

1) $2^3 \times 2^{-2} =$ _____ $=$ _____

1. _____

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

2. _____

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

3. _____

4) $3^0 =$ _____ $=$ _____

4. _____

5) $3^0 =$ _____ $=$ _____

5. _____

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

6. _____

7) $(2^4)^3 =$ _____ $=$ _____

7. _____

8) $2^{-3} =$ _____ $=$ _____

8. _____

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

9. _____

10) $2^1 =$ _____ $=$ _____

10. _____



Solve each problem using the laws of exponents.

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

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

3) $(3 \times 2)^4 = 3^4 \times 2^4 = 1,296$

4) $3^0 = 1 = 1$

5) $3^0 = 1 = 1$

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

7) $(2^4)^3 = 2^{4 \times 3} = 4,096$

8) $2^{-3} = \frac{1}{2^3} = \frac{1}{8}$

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

10) $2^1 = 2 = 2$

Answers

1. **2**

2. **128**

3. **1,296**

4. **1**

5. **1**

6. **$\frac{1}{4}$**

7. **4,096**

8. **$\frac{1}{8}$**

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

10. **2**