



Solve each problem using the laws of exponents.

Answers

1) $(3 \times 2)^4 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

1.

2) $2^3 \times 2^{-2} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

2.

3) $(2^2)^4 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

3.

4) $2^1 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

4.

5) $(\frac{1}{3})^3 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

5.

6) $3^{-4} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

6.

7) $3^0 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

7.

8) $3^{-2} \times 3^3 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

8.

9) $2^{-3} \times 2^2 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

9.

10) $2^3 \times 2^4 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

10.



Solve each problem using the laws of exponents.

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

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

3) $(2^2)^4 = \underline{2^{2 \times 4}} = \underline{256}$

4) $2^1 = \underline{2} = \underline{2}$

5) $(\frac{1}{3})^3 = \underline{\frac{1}{3^3}} = \underline{\frac{1}{27}}$

6) $3^{-4} = \underline{\frac{1}{3^4}} = \underline{\frac{1}{81}}$

7) $3^0 = \underline{1} = \underline{1}$

8) $3^{-2} \times 3^3 = \underline{3^{-2+3}} = \underline{3}$

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

10) $2^3 \times 2^4 = \underline{2^{3+4}} = \underline{128}$

Answers

1. **1,296**

2. **2**

3. **256**

4. **2**

5. **$\frac{1}{27}$**

6. **$\frac{1}{81}$**

7. **1**

8. **3**

9. **$\frac{1}{2}$**

10. **128**