



Solve each problem using the laws of exponents.

1) $3^0 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

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

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

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

5) $2^{-2} \times 2^4 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

6) $2^1 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

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

8) $(3^4)^2 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

9) $3^{-4} = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

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

Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____



Solve each problem using the laws of exponents.

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

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

3) $(2 \times 3)^2 = \underline{2^2 \times 3^2} = \underline{36}$

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

5) $2^{-2} \times 2^4 = \underline{2^{-2+4}} = \underline{4}$

6) $2^1 = \underline{2} = \underline{2}$

7) $(\frac{1}{2})^3 = \underline{\frac{1}{2^3}} = \underline{\frac{1}{8}}$

8) $(3^4)^2 = \underline{3^{4 \times 2}} = \underline{6,561}$

9) $3^{-4} = \underline{\frac{1}{3^4}} = \underline{\frac{1}{81}}$

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

Answers

1. $\underline{1}$

2. $\underline{2}$

3. $\underline{36}$

4. $\underline{128}$

5. $\underline{4}$

6. $\underline{2}$

7. $\underline{\frac{1}{8}}$

8. $\underline{6,561}$

9. $\underline{\frac{1}{81}}$

10. $\underline{2}$