



Solve each problem using the laws of exponents.

Answers

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

1. _____

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

2. _____

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

3. _____

4) $(1/2)^4 =$ _____ $=$ _____

4. _____

5) $(1/2)^3 =$ _____ $=$ _____

5. _____

6) $3^{-3} =$ _____ $=$ _____

6. _____

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

7. _____

8) $2^{-4} =$ _____ $=$ _____

8. _____

9) $(3^2)^4 =$ _____ $=$ _____

9. _____

10) $2^2 \times 2^4 =$ _____ $=$ _____

10. _____



Solve each problem using the laws of exponents.

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

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

3) $(3^3)^4 = \underline{3^{3 \times 4}} = \underline{531,441}$

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

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

6) $3^{-3} = \underline{\frac{1}{3^3}} = \underline{\frac{1}{27}}$

7) $3^3 \times 3^2 = \underline{3^{3+2}} = \underline{243}$

8) $2^{-4} = \underline{\frac{1}{2^4}} = \underline{\frac{1}{16}}$

9) $(3^2)^4 = \underline{3^{2 \times 4}} = \underline{6,561}$

10) $2^2 \times 2^4 = \underline{2^{2+4}} = \underline{64}$

Answers

1. $\underline{2}$

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

3. $\underline{531,441}$

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

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

6. $\underline{\frac{1}{27}}$

7. $\underline{243}$

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

9. $\underline{6,561}$

10. $\underline{64}$