



Solve each problem using the laws of exponents.

Answers

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

1.

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

2.

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

3.

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

4.

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

5.

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

6.

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

7.

8) $2^{-4} \times 2^2 = \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

8.

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

9.

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

10.



Solve each problem using the laws of exponents.

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

2) $(2^3)^2 = \underline{2^{3 \times 2}} = \underline{64}$

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

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

5) $(\frac{1}{3})^2 = \underline{\frac{1}{3^2}} = \underline{\frac{1}{9}}$

6) $3^{-2} = \underline{\frac{1}{3^2}} = \underline{\frac{1}{9}}$

7) $2^0 = \underline{1} = \underline{1}$

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

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

10) $3^2 \times 3^3 = \underline{3^{2+3}} = \underline{243}$

Answers

1. $\underline{3}$

2. $\underline{64}$

3. $\underline{36}$

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

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

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

7. $\underline{1}$

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

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

10. $\underline{243}$