



Solve each problem using the laws of exponents.

Answers

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

1. _____

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

2. _____

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

3. _____

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

4. _____

5) $3^{-3} =$ _____ = _____

5. _____

6) $2^4 \times 2^{-2} =$ _____ = _____

6. _____

7) $2^0 =$ _____ = _____

7. _____

8) $3^0 =$ _____ = _____

8. _____

9) $(\frac{1}{3})^4 =$ _____ = _____

9. _____

10) $(3 \times 2)^2 =$ _____ = _____

10. _____



Solve each problem using the laws of exponents.

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

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

3) $(3 \times 2)^3 = \underline{3^3 \times 2^3} = \underline{216}$

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

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

6) $2^4 \times 2^{-2} = \underline{2^{4-2}} = \underline{4}$

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

8) $3^0 = \underline{1} = \underline{1}$

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

10) $(3 \times 2)^2 = \underline{3^2 \times 2^2} = \underline{36}$

Answers

1. $\underline{\frac{1}{3}}$

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

3. $\underline{216}$

4. $\underline{256}$

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

6. $\underline{4}$

7. $\underline{1}$

8. $\underline{1}$

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

10. $\underline{36}$