



Solve each problem using the laws of exponents.

Answers

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

1.

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

2.

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

3.

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

4.

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

5.

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

6.

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

7.

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

8.

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

9.

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

10.



Solve each problem using the laws of exponents.

1) $(2 \times 3)^2 = 2^2 \times 3^2 = 36$

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

3) $2^2 \times 2^3 = 2^{2+3} = 32$

4) $(2^3)^2 = 2^{3 \times 2} = 64$

5) $2^{-2} = 1/2^2 = \frac{1}{4}$

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

7) $3^1 = 3 = 3$

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

9) $2^1 = 2 = 2$

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

Answers

1. **36**

2. **2**

3. **32**

4. **64**

5. **$\frac{1}{4}$**

6. **4**

7. **3**

8. **$\frac{1}{3}$**

9. **2**

10. **$\frac{1}{16}$**