Solve each problem using the laws of exponents.

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

2) $2^4 \times 2^3 =$ _____ = _____

3) $(3 \times 2)^4 =$ _____ = _____

4) $3^0 =$ _____ = _____

5) $3^0 =$ _____ = _____

6) $(\frac{1}{2})^2 =$ _____ = _____

7) $(2^4)^3 =$ _____ = _____

8) $2^{-3} =$ _____ = _____

9) $3^{-4} \times 3^2 =$ _____ = _____

10) $2^1 =$ _____ = _____

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

1-10	90	80	70	60	50	40	30	20	10	0

Solve each problem using the laws of exponents.

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

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

3) $(3 \times 2)^4 =$ $3^4 \times 2^4$ = 1,296

4) $3^0 =$ 1 = 1

5) $3^0 =$ 1 = 1

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

7) $(2^4)^3 =$ $2^{4 \times 3}$ = 4,096

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

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

10) $2^1 =$ 2 = 2

Answers

1. 2
2. 128
3. 1,296
4. 1
5. 1
6. $\frac{1}{4}$
7. 4,096
8. $\frac{1}{8}$
9. $\frac{1}{9}$
10. 2

1-10	90	80	70	60	50	40	30	20	10	0