

Partner 1: _____

Partner 2: _____

Exponent Rules Row Game

Choose a column and simplify the expressions. Your partner will simplify the expressions in the other column. Show your work. If you and your partner didn't make any mistakes, your answers will be the same for each question. If not, work together to find the error(s).

Partner 1

1. $3^3 3^4 3^5$

2. $(3^3)^4 3^5$

3. $(2^3 \cdot 2^2)^2 2^5$

4. $(-4)^3 ((-4)^3)^3$

5. $\frac{3^7 3^5}{3^9}$

6. $\frac{(2^7)^3 2^5}{2^4 2^{22}}$

7. $(2^3 \div 2^2 \cdot 2^8)^2 2^0$

8. $2^2 + 2^3 \cdot 2^2 - 2^0$

9. $(-2)^3 + \frac{4^6}{4^3} - 2 \cdot 4^2$

Partner 2

1. $3^{10} 3^0 3^2$

2. $3^1 (3^8)^2$

3. $2^7 (2^3 \div 2^2)^8$

4. $4^{11} (4^{14})^0 4^1$

5. $3^1 (3^1)^2$

6. $\frac{2^8 (2^3)^6}{2^{11} 2^{15}}$

7. $(2^4 \cdot 2^2 \div 2^4 \cdot 2^7)^2$

8. $-3^0 + 3^3 + (-3^1)^2$

9. $2(2^5 \div 2^3)^2 + (-2)^3$