

Name: \_\_\_\_\_

This is the Partner Game. One of you will be Partner A, the other Partner B. Complete the problems on your half of the page. Your answers should match your partner's answers.

| Partner A                     | Partner B                           |
|-------------------------------|-------------------------------------|
| 1) $(3x^2y^4)(6x^3y^7)$       | 1) $(9x^4y^6)(2xy^5)$               |
| 2) $\frac{24x^3y^8}{4x^7y^2}$ | 2) $\frac{42x^6y^7}{7x^{10}y}$      |
| 3) $(4x^2y^4)^3$              | 3) $(8x^3y^6)^2$                    |
| 4) $(4x^6y^7)(6x^3y^4)$       | 4) $(12x^4y^4)(2x^5y^7)$            |
| 5) $\frac{32x^4y^2}{4x^2y^7}$ | 5) $\frac{40x^{-3}y^4}{5x^{-5}y^9}$ |
| 6) $(25x^4y^2)^2$             | 6) $(5x^2y)^4$                      |

|                                     |                                       |
|-------------------------------------|---------------------------------------|
| $\frac{15x^{-1}y^6}{3x^4y^{-2}}$ 7) | $\frac{60x^2y^{10}}{12x^7y^2}$ 7)     |
| 8) $(6x^3y^{-2})(8x^2y^7)$          | 8) $(16x^9y^3)(3x^{-4}y^2)$           |
| 9) $(9x^6y^{12})^2$                 | 9) $(3x^3y^6)^4$                      |
| 10) $(10x^7y^{-3})(6x^3y^7)$        | 10) $(20x^{-5}y)(3x^{15}y^3)$         |
| 11) $(4x^5y^4)^4$                   | 11) $(16x^{10}y^8)^2$                 |
| $\frac{48x^3y^{-1}}{32xy^{-3}}$ 12) | $\frac{60x^{-3}y^5}{40x^{-5}y^9}$ 12) |