

Name \_\_\_\_\_

**SIMPLIFYING EXPRESSIONS #6**

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**Directions:** Simplify each of the expressions below. Show your work and write your final answer in the line provided.

Examples:  $\frac{4x^5y^2}{10x^2y} = \frac{4 \bullet x \bullet x \bullet x \bullet x \bullet x \bullet y \bullet y}{10 \bullet x \bullet x \bullet y} = \frac{2x^3y}{5}$        $\frac{6x^3y^2}{15x^2y^5} = \frac{6 \bullet x \bullet x \bullet x \bullet y \bullet y}{15 \bullet x \bullet x \bullet y \bullet y \bullet y \bullet y \bullet y} = \frac{2x}{5y^3}$

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1)  $\frac{6x^5y^2}{9x^2y} =$

1) \_\_\_\_\_

2)  $\frac{8x^7y^5}{20x^2y^3} =$

2) \_\_\_\_\_

3)  $\frac{4x^4y^2}{10x y^5} =$

3) \_\_\_\_\_

4)  $\frac{6x^9y^3}{9x^7y^6} =$

4) \_\_\_\_\_

5)  $\frac{8x^8y^2}{20x^3y} =$

5) \_\_\_\_\_

6)  $\frac{4x^7y^2}{20x^2y^2} =$

6) \_\_\_\_\_

7)  $\frac{8x^4y^7}{64x y^5} =$

7) \_\_\_\_\_

8)  $\frac{6x^7y^2}{2x^2} =$

8) \_\_\_\_\_

9)  $\frac{x^7y^5z^3}{x^2y^3z} =$

9) \_\_\_\_\_