

**PAY ATTENTION TO THE OPERATION!**

Date \_\_\_\_\_ Period \_\_\_\_\_

**Simplify each expression.**

1)  $\frac{2x}{7x} \div \frac{5x}{7x}$

2)  $\frac{2x}{4} \cdot \frac{8x^3}{4}$

3)  $\frac{3x^3}{2x} \div \frac{10}{9}$

4)  $\frac{3n^5}{9} \div \frac{5}{10}$

5)  $\frac{1}{5(5x+6)} \cdot \frac{4(5x+6)}{x+3}$

6)  $\frac{(v-8)(v-5)}{(v-6)(v-5)} \cdot \frac{(6-v)(8+v)}{v+4}$

7)  $\frac{6(5k-3)}{6(k-7)} \cdot \frac{10k}{5(5k-3)}$

8)  $\frac{10(x+8)}{10(x+4)} \div \frac{x-5}{x+4}$

$$9) \frac{u-4v}{30u^2v} + \frac{u+5v}{30u^2v}$$

$$10) \frac{u-6v}{18uv^2} + \frac{u+v}{18uv^2}$$

$$11) \frac{x+6y}{12y^2} + \frac{6x}{12y^2}$$

$$12) \frac{2}{6u^5v} - \frac{u-4v}{6u^5v}$$

$$13) \frac{6}{2v+5} + \frac{2}{v+5}$$

$$14) \frac{4}{2} - \frac{4k+3}{3k+9}$$

$$15) \frac{6n}{3n+2} - \frac{2}{n+6}$$

$$16) \frac{3}{x+3} + \frac{3x}{x-6}$$