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Name \_\_\_\_\_

Period \_\_\_\_\_

### Dividing Rational Expressions

Simplify each expression.

1)  $\frac{10n}{9} \div \frac{13n^2}{16}$

2)  $\frac{16n}{17} \div \frac{8n}{6}$

3)  $\frac{2}{7} \div \frac{18}{8x^2}$

4)  $\frac{12}{7} \div \frac{4}{11r}$

5)  $\frac{7}{18} \div \frac{6}{9a}$

6)  $\frac{5}{20} \div \frac{5x}{3}$

7)  $\frac{4n}{n-6} \div \frac{4n}{8n-48}$

8)  $\frac{3}{28b} \div \frac{3}{b+1}$

9)  $\frac{7a^2}{7a^3+56a^2} \div \frac{2}{a^2+7a-8}$

10)  $\frac{6}{28x+4} \div \frac{6}{35x+5}$

11)  $\frac{x^2+10x+16}{x^2+6x+8} \div \frac{1}{x+4}$

12)  $\frac{49x+21}{6x} \div \frac{42x+18}{6}$