

Name \_\_\_\_\_

Period \_\_\_\_\_

**Multiplying Rational Expressions****Simplify each expression.**

1)  $\frac{59n}{99} \cdot \frac{80}{33n}$

2)  $\frac{53}{43} \cdot \frac{46n^2}{31}$

3)  $\frac{93}{21n} \cdot \frac{34n}{51n}$

4)  $\frac{79n}{25} \cdot \frac{85}{27n^2}$

5)  $\frac{96}{38n} \cdot \frac{25}{45}$

6)  $\frac{84}{3} \cdot \frac{48x}{95}$

7)  $\frac{6(r+2)}{20} \cdot \frac{4r}{6(r+2)}$

8)  $\frac{7n^2(n+4)}{(n-3)(n+4)} \cdot \frac{n-3}{(n+8)(n+6)}$

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

10)  $\frac{9(r+4)}{r+4} \cdot \frac{9r}{9(r-5)}$

11)  $\frac{8(m+1)}{7m} \cdot \frac{9}{8(m+1)}$

12)  $\frac{(p+6)(p-4)}{p-4} \cdot \frac{1}{(p-4)(p-2)}$

13)  $\frac{1}{v+10} \cdot \frac{10v+30}{v+3}$

14)  $\frac{7n}{24n^3-64n^2} \cdot \frac{9n-24}{7n}$