

Name \_\_\_\_\_

Period \_\_\_\_\_

**Multiplying Rational Expressions**

Simplify each expression.

1)  $\frac{10a}{9b} \cdot \frac{6b}{33a}$

2)  $\frac{3x}{4y} \cdot \frac{8xy^2}{25}$

3)  $\frac{9d}{20a} \cdot \frac{34a}{31d}$

4)  $\frac{17a}{25} \cdot \frac{63}{21a^2}$

5)  $\frac{6b}{30a} \cdot \frac{25}{4b}$

6)  $\frac{3a}{7} \cdot \frac{41c}{9b}$

7)  $\frac{60r + 25}{28} \cdot \frac{4r}{60r + 24}$

8)  $\frac{7a^2b + 4b}{2a - 25a + 4b} \cdot \frac{a - 5}{2a + 25a + 54}$

9)  $\frac{20p + 44}{4} \cdot \frac{p - 3}{20p - 20}$

10)  $\frac{8q + 11}{r + 4} \cdot \frac{8r}{90r - 70}$

11)  $\frac{80a + 11}{7a} \cdot \frac{9}{80a + 11}$

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

13)  $\frac{1}{r + 20} \cdot \frac{18r + 30}{r + 3}$

14)  $\frac{7a}{25a^2 + 64a^2} \cdot \frac{8a - 24}{7a}$