

Name _____

Period _____

Multiplying Rational Expressions

Simplify each expression.

1) $\frac{10a}{99} \cdot \frac{66}{33a}$

2) $\frac{2b}{45} \cdot \frac{45a^2}{3b}$

3) $\frac{9d}{20a} \cdot \frac{34a}{81d}$

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

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

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

7) $\frac{6x+25}{28} \cdot \frac{4x}{6x+23}$

8) $\frac{7x^2y+45}{2x-23y+43} \cdot \frac{x-3}{2x+39y+54}$

9) $\frac{25p+44}{4} \cdot \frac{p-3}{25p-20}$

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

11) $\frac{80a+11}{7a} \cdot \frac{9}{30a+11}$

12) $\frac{(p+3)(p-4)}{p-4} \cdot \frac{1}{(p-4)(p-2)}$

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

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