Name : _____ Score : _____

Teacher : _____ Date : _____

Multiplying Rational Expressions

Simplify each expression.

1) $\frac{5d(d - 12)}{(d - 12)(d - 3)} \cdot \frac{d - 3}{(d - 2)(d - 4)}$

2) $\frac{63p^2 + 63p}{70p^2 + 70p} \cdot \frac{2p}{2}$

3) $\frac{10}{12} \cdot \frac{4}{3}$

4) $\frac{11(r + 12)}{12} \cdot \frac{10r}{11(r + 12)}$

5) $\frac{2}{(x - 8)} \cdot \frac{9x - 54}{(x - 6)}$

6) $\frac{z^2 + 13z + 40}{z + 5} \cdot \frac{z + 8}{10}$

7) $\frac{11(y + 5)}{5} \cdot \frac{4y}{11(y + 5)}$

8) $\frac{9}{3} \cdot \frac{8}{7q}$

9) $\frac{12(s - 4)}{(s - 4)} \cdot \frac{11s}{12(s + 3)}$

10) $\frac{7g(g - 2)}{(g - 2)(g + 4)} \cdot \frac{g + 4}{(g - 11)(g - 9)}$

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