Name : _____ Score : _____

Teacher : _____ Date : _____

Multiplying Rational Expressions

Simplify each expression.

1) $\frac{35b^2 - 35b}{14b^2 - 14b} \bullet \frac{3b}{3}$

2) $\frac{11}{4} \bullet \frac{12}{6y}$

3) $\frac{10(h - 8)}{(h - 8)} \bullet \frac{4h}{10(h + 12)}$

4) $\frac{(x + 10)(x + 3)}{x + 10} \bullet \frac{9}{(x + 11)(x + 10)}$

5) $\frac{3}{(p - 7)} \bullet \frac{2p + 10}{(p + 5)}$

6) $\frac{3g - 3}{g^2 + 14g + 48} \bullet \frac{g + 6}{3g - 3}$

7) $\frac{(d - 9)(d + 11)}{d - 9} \bullet \frac{8}{(d + 10)(d - 9)}$

8) $\frac{k^2 + 13k + 30}{k + 3} \bullet \frac{k + 10}{9}$

9) $\frac{12(c + 6)}{6} \bullet \frac{10c}{12(c + 6)}$

10) $\frac{6}{2} \bullet \frac{11}{9}$

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$\frac{5b}{2}$

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$\frac{4h}{h + 12}$

4) $\frac{(x + 10)(x + 3)}{x + 10} \bullet \frac{9}{(x + 11)(x + 10)}$

$\frac{9(x + 3)}{(x + 11)(x + 10)}$

5) $\frac{3}{(p - 7)} \bullet \frac{2p + 10}{(p + 5)}$

$\frac{6}{p - 7}$

6) $\frac{3g - 3}{g^2 + 14g + 48} \bullet \frac{g + 6}{3g - 3}$

$\frac{1}{g + 8}$

7) $\frac{(d - 9)(d + 11)}{d - 9} \bullet \frac{8}{(d + 10)(d - 9)}$

$\frac{8(d + 11)}{(d + 10)(d - 9)}$

8) $\frac{k^2 + 13k + 30}{k + 3} \bullet \frac{k + 10}{9}$

$\frac{(k + 10)^2}{9}$

9) $\frac{12(c + 6)}{6} \bullet \frac{10c}{12(c + 6)}$

$\frac{5c}{3}$

10) $\frac{6}{2} \bullet \frac{11}{9}$

$\frac{11}{3}$