

Name : _____ Score : _____

Teacher : _____ Date : _____

Multiplying and Dividing Rational Expressions

Simplify each expression.

1) $\frac{5q + 5}{q^2 + 19q + 88} \cdot \frac{q + 8}{5q + 5}$

6) $\frac{6d^2}{4} \div \frac{11d}{2}$

2) $\frac{9}{11} \cdot \frac{2}{5n}$

7) $\frac{8(r - 4)}{(r - 4)} \cdot \frac{9r}{8(r - 2)}$

3) $\frac{y^2 + 20y + 96}{y^2 + 14y + 24} \div \frac{1}{y + 2}$

8) $\frac{10}{(h + 4)} \cdot \frac{11h - 77}{(h - 7)}$

4) $\frac{30g^2 - 25g - 20}{33g^2 - 20g - 32} \div \frac{g^2}{66g^2 - 84g - 96}$

9) $(z - 3) \cdot \frac{7z}{z^2 - 4z + 3}$

5) $\frac{s^2 + 3s + 2}{7s} \div (s + 1)$

10) $\frac{4(b + 10)}{10} \cdot \frac{2b}{4(b + 10)}$

