

Math Sheet

Name _____ Score _____ / 10 Teacher _____ Date _____

Dividing Rational Expressions

Divide and simplify. Keep both original denominators and the divisor numerator nonzero.

1. $\frac{15q^2 - 2q - 1}{63q^2 - 66q + 15} \div \frac{q^2}{42q^2 - 135q + 75}$

2. $\frac{27q^5}{3} \div \frac{9}{3}$

3. $\frac{11s}{s - 8} \div \frac{11s}{7s - 56}$

4. $\frac{n^2 - 22n + 120}{n^2 - n - 132} \div \frac{1}{n + 11}$

5. $\frac{14n^6}{6} \div \frac{42n}{10}$

6. $\frac{m + 9}{m^2 + 4m - 45} \div \frac{2m}{m - 2}$

7. $\frac{30y^2}{11} \div \frac{18}{5}$

8. $\frac{6s}{s - 4} \div \frac{6s}{12s - 48}$

9. $\frac{88n^6}{7} \div \frac{132n^5}{4}$

10. $\frac{110y + 120}{6} \div \frac{99y + 108}{6y}$
