

Skills Maintenance #7
Rational Expressions (mult./div.)

Name _____
Pd _____ Date _____

Simplify.

1. $\frac{-18a^2b^2}{3a^3b^4}$

2. $\frac{6x-3y+4}{2}$

3. $\frac{4n+12}{6n+18}$

4. $\frac{t^2-9}{t^2+4t+3}$

Multiply.

5. $\frac{24x^3y}{-6ab^2} \cdot \frac{12a}{3x^2y}$

6. $\frac{10t-5s}{5} \cdot \frac{15r}{2t-s}$

7. $\frac{x^2-1}{2x+1} \cdot \frac{4x^2+4x+1}{x^2+2x+1}$

8. $\frac{b^2-4b}{b^2+2b} \cdot \frac{b^2-3b-10}{b^2-9b+20}$

Divide.

9. $\frac{x^2}{y^3} \div \frac{3x}{4y}$

10. $\frac{n^2-9}{9n^2-1} \div \frac{n+3}{3n-1}$

11. $\frac{y^2+4y+4}{y+1} \div (3y^2+5y-2)$

12. $\frac{a^2b}{ab^2} \cdot \frac{ac}{b} \div \frac{ab}{c}$

Score:
Answers
1.
2.
3.
4.
5.
6.
7.
8.
9.
10.
11.
12.