

Multiplying and Dividing Rational Expressions

Name: _____

1.

$$\frac{(x+3)(y-7)}{(x+2)(x-4)} \div \frac{(x-7)}{x^2+2x+1}$$

2.

$$\frac{4n}{n-6} \div \frac{4n}{8n-48}$$

3.

$$\frac{x-8}{(x+6)(x-8)} \cdot \frac{4x(x+10)}{x+10}$$

4.

$$\frac{2y+10}{x} \cdot \frac{xy}{y^2+6y+5}$$

5.

$$\frac{a-4}{a^2-2a-8} \div \frac{1}{a-5}$$

6.

$$\frac{b^2-2b-15}{8b+20} \div \frac{2}{4b+10}$$

7.

$$\frac{5x-10}{x+3} \div \frac{3x-6}{2x+6}$$

8.

$$\frac{7a^2}{7a^3+56a^2} \div \frac{2}{a^2+7a-8}$$

9.

$$\frac{x^2+10x+16}{x^2+6x+8} \div \frac{1}{x+4}$$

10.

$$\frac{2}{v^2-12v+27} \cdot \frac{v^2-12v+27}{3}$$