

Unit 7: Rational Expressions & Equations**7.2 Multiplying & Dividing Rational Expressions**

Recall:

$$\frac{5}{8} \times \frac{4}{15}$$

$$\frac{5}{3} \div \frac{1}{6}$$

Same idea for rational expressions. Remember to **factor!****ex.** Simplify. Identify all non-permissible values.

a) $\left(\frac{4x^2}{3xy}\right)\left(\frac{y^2}{8x}\right)$

b) $\frac{x^2-x-12}{x^2-9} \times \frac{x^2-4x+3}{x^2-4x}$

c) $\frac{x^2-4}{x^2-4x} \div \frac{x^2+x-6}{x^2+x-20}$

d) $\frac{2m^2+7m-15}{10m+2m^2} \div \frac{9-4m^2}{6} \times (2m+3)$



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