

### Multiplying and Dividing Algebraic Fractions

Simplify:

(a)  $\frac{4x^2}{8x}$       (b)  $\frac{4xy}{12y^2}$

(c)  $\frac{9abc}{12bc}$       (d)  $\frac{5a}{8a^2b}$

(e)  $\frac{10x^2y}{20xy}$       (f)  $\frac{9x^2yz}{27y^2}$

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Simplify:

(a)  $\frac{x}{2} \times \frac{x}{5}$       (b)  $\frac{2x}{5} \times \frac{10}{3y}$

(c)  $\frac{2x^2}{7} \times \frac{x}{5}$       (d)  $\frac{5xy}{11} \times \frac{33}{2x}$

(e)  $\frac{4ab}{9} \times \frac{3a}{8b^2}$       (f)  $\frac{x^2}{y^2} \times \frac{y}{x}$

(g)  $\frac{4}{9} \times \frac{abc}{8}$       (h)  $\frac{2x^3}{5y} \times y$

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Simplify:

(a)  $\frac{x}{3} \div \frac{x}{7}$       (b)  $\frac{2x}{5} \div \frac{10y}{3}$

(c)  $\frac{2x^2}{7} \div \frac{x}{5}$       (d)  $\frac{5x}{11y} \div \frac{3}{2x}$

(e)  $\frac{3}{x} \div \frac{6y}{11}$       (f)  $\frac{4}{5ab} \div \frac{10b}{3a}$

(g)  $\frac{8a}{7b} \div 4$       (h)  $\frac{2x^2y}{5z} \div \frac{7x}{2yz}$

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Simplify:

(a)  $\frac{a^3b^4cd^2}{5a} \times \frac{10d}{ab^2c^3}$

(b)  $\frac{20a^2b^5c^3}{15} \times \frac{3c^2}{a^5b^2}$

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