**Multiplying and Dividing Algebraic Fractions**

Simplify:

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

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

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

Simplify:

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

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

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

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

Simplify:

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

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

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

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

Simplify:

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

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

**Multiplying and Dividing Algebraic Fractions**

Simplify:

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

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

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

Simplify:

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

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

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

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

Simplify:

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

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

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

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

Simplify:

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

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