

Dividing Algebraic Fractions

Video 22 on Corbettmaths

Examples



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Workout

Question 1: Express the following as a single **simplified** fraction.

(a) $\frac{x}{2} \div \frac{2}{3}$

(b) $\frac{a}{c} \div \frac{d}{5}$

(c) $\frac{3}{w} \div \frac{2}{a}$

(d) $\frac{c}{4} \div \frac{3}{c}$

(e) $\frac{3a}{4} \div \frac{6c}{7}$

(f) $\frac{4x}{9y} \div \frac{6x}{7}$

(g) $\frac{10x}{3y} \div \frac{15x}{y}$

(h) $\frac{ab}{3} \div \frac{2a}{b}$

(i) $\frac{4fg}{h} \div \frac{f}{2h}$

Question 2: Express the following as a single fraction. **Simplify** if possible.

(a) $\frac{x-4}{8} \div \frac{3x-12}{2}$

(b) $\frac{x+3}{x+2} \div \frac{x+1}{x+2}$

(c) $\frac{x+1}{2} \div \frac{2x+2}{3}$

(d) $\frac{3x+9}{2} \div \frac{x+3}{4}$

(e) $\frac{4}{x-2} \div \frac{3}{x^2-2x}$

(f) $\frac{11}{4x^2+2x} \div \frac{3}{2x+1}$

(g) $\frac{x+3}{x+1} \div \frac{x}{(x+1)^2}$

(h) $\frac{x^2}{7} \div \frac{6x^3+8x^2}{x^2-7x}$

(i) $\frac{x}{x+6} \div \frac{x+6}{x^2}$

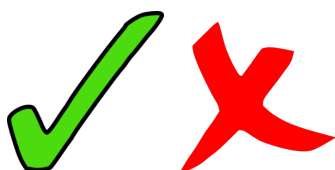
(j) $\frac{x^2+7x+10}{2} \div \frac{x^2+4x-5}{4}$

(k) $\frac{14}{x^2-5x+6} \div \frac{7}{x^2+3x-10}$

(l) $\frac{x+4}{x+5} \div \frac{3x+12}{x^2-25}$

(m) $\frac{x^3-x}{x+2} \div \frac{x^2-x}{x^2-5x-14}$

Answers



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