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National 5 Maths
Multiplying or Dividing
Algebraic Fractions

SQA past paper and specimen paper questions and answers by topic

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Express $\dfrac{5t}{s} \div \dfrac{t}{2s^2}$ in its simplest form.

3

Answer:

$10s$

Express

$$\frac{n}{n^2 - 4} \div \frac{3}{n-2}, \quad n \neq -2, n \neq 2$$

as a single fraction in its simplest form.

3

Answer:

$$\frac{n}{3(n+2)} \quad \text{or} \quad \frac{n}{3n+6}$$

Express

$$\frac{6x}{y} \div \frac{2x^2}{y+5} \,, \quad x \neq 0,\, y \neq 0,\, y \neq -5$$

as a single fraction in its simplest form.

3

Answer:

$$\frac{3(y+5)}{xy}$$

Express $\dfrac{4}{x+2} \div \dfrac{5}{(x+2)^2}$, $x \neq -2$ as a single fraction in its simplest form.

2

Answer:

$\dfrac{4(x+2)}{5}$ or $\dfrac{4x+8}{5}$