

SQA Past paper questions

2024 - Paper 2 - Question 6

(a) Factorise $y^2 - 6y$. 1

(b) Hence simplify $\frac{y^2 - 6y}{y^2 - 3y - 18}$. 2

Click [here](#) for video solution. 

2024 - Paper 2 - Question 12

Express

$$\frac{2}{x+5} + \frac{3}{x-4}, \quad x \neq -5, x \neq 4$$

as a single fraction in its simplest form. 3

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2023 - Paper 2 - Question 10

Express

$$\frac{7}{x-3} - \frac{2}{x}, \quad x \neq 3, x \neq 0$$

as a single fraction in its simplest form. 3

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2023 - Paper 2 - Question 12

Simplify $\frac{x^2 - 16}{x^2 + x - 20}$. 3

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2022 - Paper 1 - Question 12

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

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2022 - Paper 2 - Question 12

Simplify $\frac{2ab+6a}{b^2-9}$. 3

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2021 - Paper 2 - Question 12

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

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2019 - Paper 2 - Question 13

Find an expression for the gradient of the line joining point A(6,9) to point B(4p,4p²).

Give your answer in its simplest form. 3

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2019 - Paper 2 - Question 15

Express

$$\frac{4}{x-2} - \frac{3}{x+5}, \quad x \neq 2, x \neq -5$$

as a single fraction in its simplest form. 3

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2018 - Paper 2 - Question 15

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

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2017 - Paper 2 - Question 9

(a) Factorise $4x^2 - 25$. 1

(b) Hence simplify $\frac{4x^2 - 25}{2x^2 - x - 10}$. 3

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2017 - Paper 1 - Question 11

Express $\frac{3}{a^2} - \frac{2}{a}$, $a \neq 0$, as a single fraction in its simplest form. 2

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2016 - Paper 2 - Question 13

Express

$$\frac{3}{x - 2} + \frac{5}{x + 1}, \quad x \neq 2, x \neq -1$$

as a single fraction in its simplest form.

3

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2015 - Paper 1 - Question 12

Simplify $\frac{x^2 - 4x}{x^2 + x - 20}$.

3

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2015 - Paper 2 - Question 7

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

3

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2014 - Paper 2 - Question 9

Express $\frac{7}{x+5} - \frac{3}{x}$ $x \neq -5, x \neq 0$ as a single fraction in its simplest form.

3

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Specimen - Paper 1 - Question 11

Express

$$\frac{4}{x+2} - \frac{3}{x-4}, \quad x \neq -2, x \neq 4$$

as a single fraction in its simplest form.

3

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2013 - Paper 1 - Question 7

Simplify $\frac{(x+4)^2}{x^2-x-20}$. 3

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2013 - Paper 2 - Question 9

Express

$$\frac{3}{x+2} + \frac{5}{x-1} \quad x \neq -2, \quad x \neq 1$$

as a single fraction in its simplest form. 3

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2012 - Paper 2 - Question 7

Express as a single fraction

$$\frac{a}{b} + \frac{b}{a}, \quad a \neq 0, \quad b \neq 0. \quad 3$$

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2011 - Paper 2 - Question 9

Express

$$\frac{3}{x} - \frac{4}{x+1}, \quad x \neq 0, \quad x \neq -1$$

as a single fraction in its simplest form. 3

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2010 - Paper 2 - Question 6

Express

$$\frac{s^2}{t} \times \frac{3t}{2s}$$

as a fraction in its simplest form. 2

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2009 - Paper 2 - Question 8

Express

$$\frac{2}{x-1} + \frac{4}{x+2} \quad x \neq 1, x \neq -2$$

as a single fraction in its simplest form. 3

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2008 - Paper 1 - Question 11

Express

$$\frac{2}{a} - \frac{3}{(a+4)}, \quad a \neq 0, a \neq -4,$$

as a single fraction in its simplest form. 3

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2007 - Paper 2 - Question 7(b)

Simplify

$$\frac{(2x+5)^2}{(2x-1)(2x+5)} \quad 1$$

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2007 - Paper 2 - Question 10

Express $\frac{5p^2}{8} \div \frac{p}{2}$ as a fraction in its simplest form. 3

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2006 - Paper 2 - Question 7

Express

$$\frac{3}{(x+1)} - \frac{1}{(x-2)}, \quad x \neq -1, \quad x \neq 2$$

as a single fraction in its simplest form. 3

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2005 - Paper 2 - Question 10

Express $\frac{a}{b} \times \frac{3b}{a^2}$ as a fraction in its simplest form. 2

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2004 - Paper 2 - Question 11

Express $\frac{4}{x+3} + \frac{3}{x}, x \neq -3, x \neq 0,$

as a single fraction in its simplest form. 3

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2003 - Paper 2 - Question 11

Express

$$\frac{a}{x} - \frac{b}{y}, \quad x \neq 0, \quad y \neq 0,$$

as a fraction in its simplest form. 2Click [here](#) for video solution. 

2002 - Paper 1 - Question 7

Express as a fraction in its simplest form

$$\frac{1}{x^2} + \frac{1}{x}, \quad x \neq 0. \quad \quad \quad 2$$

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2002 - Paper 2 - Question 5

(a) (i) Factorise completely

$$3y^2 - 6y. \quad \quad \quad 1$$

(ii) Factorise

$$y^2 + y - 6. \quad \quad \quad 2$$

(b) Hence express $\frac{3y^2 - 6y}{y^2 + y - 6}$ in its simplest form. 2Click [here](#) for video solution. 

2001 - Paper 1 - Question 8

Express $\frac{3}{x} - \frac{5}{x+2}$, $x \neq 0$, $x \neq -2$, as a single fraction in its simplest form.

3

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2000 - Paper 1 - Question 8

Express $\frac{2}{x} + \frac{4}{x+3}$, $x \neq 0$, $x \neq -3$, as a single fraction in its simplest form.

3

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