Algebraic Fractions

Question Paper

Course	EdexcelIGCSEMaths
Section	2. Equations, Formulae & Identities
Торіс	Algebraic Fractions
Difficulty	Medium

Time allowed:	50
Score:	/38
Percentage:	/100

Write as a single fraction in its simplest form

$$\frac{2}{y+3} - \frac{1}{y-6}$$

[3 marks]

Question 2

	5	4	
Write	$\overline{x-3}$ –	x+3	as a single fraction in its simplest form.

[3 marks]

Question 3



Simplify $\frac{4(x+5)}{x^2+2x-15}$

[2 marks]

Question 5

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

[1 mark]

Question 6

Express

$$\frac{3}{x} + \frac{x+2}{2x} + \frac{1}{4}$$

as a single fraction in its simplest form.

[3 marks]

Question 7

Express
$$\frac{4}{x-2} - \frac{3}{x+1}$$
 as a single fraction.

Give your answer in its simplest form.

Write $\frac{2x+1}{4} + \frac{x-2}{3}$ as a single fraction in its simplest form.

[3 marks]

Question 9

Write as a single fraction
$$\frac{2}{3x} + \frac{4}{5x} - \frac{9}{10x}$$

Give your answer in its simplest form.

[2 marks]

Question 10

Simplify fully
$$\frac{10x^2 + 23x + 12}{4x^2 - 9}$$

Simplify $\frac{3}{x} + \frac{4}{x}$

Circle your answer.

7	7	12	12
X	$\overline{2x}$	X	<i>x</i> ²

[1 mark]

Question 12

Simplify $\frac{25a}{8} \times \frac{2a}{5}$

Give your answer as a single fraction in its simplest form.

[2 marks]

Question 13

Show that, for $x \neq 0$

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

can be written in the form $\frac{ax + b}{cx}$ where a, b and c are integers.

Circle the expression that is equivalent to $\frac{3x^2}{6x^2+3}$

 $\frac{x^2}{2x^2+3} \qquad \frac{x^2}{6x^2+1} \qquad \frac{x^2}{2x^2+1} \qquad \frac{1}{2}+x^2$

[1 mark]

Question 15

Write as a single fraction in its simplest form.

$$\frac{3}{x-1} + \frac{4}{x+2}$$

[3 marks]

Question 16

Express as a single fraction.

$$\frac{m+1}{n+1} - \frac{m}{n}$$

Simplify your answer.

[2 marks]

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