Adding and subtracting algebraic fractions

Exit ticket ANSWERS Name _____

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

$\frac{x + 10}{3(x + 4)}$

2 Write $\frac{2}{x+3} + \frac{1}{x+1}$ as a single fraction.

$\frac{3x + 5}{(x + 3)(x + 1)}$

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

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

The Maths Habit

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

$\frac{x + 10}{3(x + 4)}$

TESTS A bracket and a number as denominators

LOOK FOR

$\frac{3}{x + 7}$ the numerators added and the denominators added

$\frac{x + 6}{3(x + 4)}$ $1 \times (x + 4)$ written as x

FIX IT

Write $\frac{3}{x+2} + \frac{1}{5}$ as a single fraction. $\frac{x + 17}{5(x + 2)}$

2 **Write $\frac{2}{x+3} + \frac{1}{x+1}$ as a single fraction.**

$\frac{3x + 5}{(x + 3)(x + 1)}$

TESTS Two brackets as denominators, adding

LOOK FOR

$\frac{3}{2x + 4}$ the numerators added and the denominators added

$\frac{3x + 4}{(x + 3)(x + 1)}$ $2(x + 1)$ expanded as $2x + 1$

FIX IT

Write $\frac{3}{x+2} + \frac{1}{x+4}$ as a single fraction. $\frac{4x + 14}{(x + 2)(x + 4)}$

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

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

TESTS Two brackets as denominators, subtracting

LOOK FOR

$\frac{x + 11}{(x + 1)(x + 2)}$ $-3(x + 1)$ taken as $-3x + 3$

$\frac{7x + 11}{(x + 1)(x + 2)}$ added, not subtracted

FIX IT

Write $\frac{6}{x+1} - \frac{1}{x+4}$ as a single fraction. $\frac{5x + 23}{(x + 1)(x + 4)}$