Adding and subtracting algebraic fractions *lesson handout* *The Maths Habit*

Part 1 · We do

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

$$\frac{3 \times \boxed{4}}{(x+2) \times \boxed{4}} + \frac{1 \times \boxed{(x+2)}}{4 \times \boxed{(x+2)}}$$

$=$ _____

$=$ _____

Answer _____

Part 1 · You do

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

$$\frac{5 \times \boxed{}}{(x+3) \times \boxed{}} + \frac{1 \times \boxed{}}{2 \times \boxed{}}$$

$=$ _____

$=$ _____

Answer _____

Part 1 · You do

Write $\frac{1}{x+4} + \frac{2}{5}$ as a single fraction.

$$\frac{1 \times \boxed{}}{(x+4) \times \boxed{}} + \frac{2 \times \boxed{}}{5 \times \boxed{}}$$

$=$ _____

$=$ _____

Answer _____

Part 2 · We do

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

$$\frac{4 \times \boxed{(x+1)}}{(x+3) \times \boxed{(x+1)}} - \frac{1 \times \boxed{(x+3)}}{(x+1) \times \boxed{(x+3)}}$$

$=$ _____

$=$ _____

Answer _____

Part 2 · You do

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

$$\frac{3 \times \boxed{}}{(x+4) \times \boxed{}} + \frac{1 \times \boxed{}}{(x+2) \times \boxed{}}$$

$=$ _____

$=$ _____

Answer _____

Part 2 · You do

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

$$\frac{5 \times \boxed{}}{(x+2) \times \boxed{}} - \frac{2 \times \boxed{}}{(x+4) \times \boxed{}}$$

$=$ _____

$=$ _____

Answer _____