Add and subtract fractions with the same denominator



Work out the calculations.

7 9 **a)** $\frac{4}{9}$ <u>3</u> 9

2

3

White Rose Maths

67

= 6



c)
$$\frac{4}{9} + \frac{5}{9} = \boxed{\frac{9}{9}}$$

Which two questions had the same an Discuss with a partner why this happe

Here is a part-whole model.



b) How many other ways could you

d)
$$\frac{8}{13} - \frac{3}{13} = \boxed{\frac{5}{13}}$$

e)
$$\frac{8}{13} - \frac{3}{13} - \frac{5}{13} = \frac{9}{13}$$

f)
$$\frac{12}{25} + \frac{5}{25} + \frac{8}{25} = \frac{25}{25}$$

a) Write all the calculations that the part-whole model represents.



make
$$\frac{6}{7}$$
?





Jack and Nijah have shaded a grid.

- **a)** Jack uses it to show that $\frac{4}{15} + \frac{4}{15} = \frac{8}{15}$ Where does Jack see this?
- **b)** NIjah uses it to show that $\frac{15}{15} \frac{4}{15} = \frac{11}{15}$ Where does Nijah see this?
- c) How many fraction calculations can you find from the grid? You could build the grid to help you discover more. Write your calculations.

Various answers

Find the missing terms in the linear sequences.





<u>7</u> 30





c)
$$\frac{3}{4} + \frac{1}{3} + \frac{1}{4} - \frac{2}{3} = \frac{2}{3}$$

d)
$$\frac{17}{10} + \frac{2}{9} - \frac{7}{10} - \frac{2}{9} = \frac{10}{10}$$

$$x = \boxed{\frac{5}{11}}$$
$$y = \boxed{\frac{5}{12}}$$

