Complete the calculations for the representations.
a)
$\square$

$$
\frac{1}{5}+\frac{3}{5}=\frac{\square}{5}
$$

b)

c)

d)

e)

f)

(2) Work out the calculations
a) $\frac{4}{9}+\frac{3}{9}$
C) $\frac{4}{9}+\frac{5}{9}$
b) $\frac{4}{9}+\frac{4}{9}$
d) $\frac{8}{13}-\frac{3}{13}$
e) $\frac{8}{13}-\frac{3}{13}-\frac{5}{13}$
f) $\frac{12}{25}+\frac{5}{25}+\frac{8}{25}$

Which two questions had the same answer?

Discuss with a partner why this happened.

Here is a part-whole model.
a) Write all the calculations that the part-whole model represents.
b) How many other ways could you 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.
a) $\frac{4}{9}+\frac{3}{9}$
C) $\frac{4}{9}+\frac{5}{9}$
b) $\frac{4}{9}+\frac{4}{9}$
d) $\frac{8}{13}-\frac{3}{13}$
e) $\frac{8}{13}-\frac{3}{13}-\frac{5}{13}$
f) $\frac{12}{25}+\frac{5}{25}+\frac{8}{25}$

Which two questions had the same answer? Discuss with a partner why this happened.

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

b) How many other ways could you 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?

5
Find the missing terms in the linear sequences.
a) $0, \frac{2}{9}, \frac{4}{9}$, $\square$
b) $\frac{11}{12}, \frac{8}{12}$ $\square$
c) $\frac{1}{25}$,

$\square$The perimeter of the triangle is $\frac{29}{30}$ units.


Find the missing length.
Work out the calculations.
a) $\frac{7}{10}+\frac{3}{10}$
b) $\frac{2}{3}-\frac{1}{3}+\frac{2}{5}+\frac{3}{5}$
c) $\frac{3}{4}+\frac{1}{3}+\frac{1}{4}-\frac{2}{3}$
d) $\frac{17}{10}+\frac{2}{9}-\frac{7}{10}-\frac{2}{9}$
(8) Solve the equations.
a) $x+\frac{2}{11}=\frac{7}{11}$
b) $y+\frac{7}{12}=1$

