1) $\frac{2}{3}$

2) **a)** $\frac{5}{3}$ or $1\frac{2}{3}$

b) $\frac{11}{6}$ or $1\frac{1}{3}$

3) **a)** $\frac{4}{5} + \frac{5}{5} = \frac{9}{5}$ or $1\frac{4}{5}$

b) $\frac{4}{5} + \frac{3}{5} + \frac{1}{5} = \frac{8}{5}$ or $1\frac{3}{5}$

3) **a)** $\frac{11}{4}$ or $2\frac{3}{4}$

b) $\frac{12}{4}$ or 3

Children may have marked jumps on the number line to help them solve each calculation.

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1) *The numerators have been added together to make 6, which is correct, but then the denominators have also been added together to make 21, which is a mistake. When adding fractions with the same denominator, the denominator remains the same. Only the numerators are added together.*

2) **a)** $\frac{5}{8} + \frac{3}{8} = \frac{8}{8}$ or 1 whole

b) $\frac{12}{10} + \frac{8}{10} = \frac{20}{10}$ or 2 whole ones

c) $\frac{90}{100} + \frac{10}{100} = 1$ whole

B is the odd one out because it equals 2 whole ones whereas A and C both make one whole.

3) *Lilah is incorrect. Her model shows she has only added $\frac{2}{6}$ and $\frac{5}{6}$, which would give the answer $\frac{7}{6}$. She needs to add the third fraction as well to give the answer $\frac{10}{6}$.*

Carl is incorrect. His model shows that he has added 3 fractions together but his number line shows the calculation $\frac{2}{6} + \frac{5}{6} + \frac{4}{6}$ which gives the answer $\frac{11}{6}$, instead of $\frac{10}{6}$.

Nadia is correct. Her model represents the calculation $\frac{2}{6} + \frac{5}{6} + \frac{3}{6}$, which gives the answer $\frac{10}{6}$.

1)

Child	Calculation
Luca	$\frac{4}{6} + \frac{4}{6} + \frac{4}{6} = \frac{12}{6}$
Sarah	$\frac{5}{6} + \frac{5}{6} + \frac{1}{6} = \frac{11}{6}$
Tom	$\frac{10}{6} + \frac{4}{6} = \frac{14}{6}$
Angus	$\frac{1}{6} + \frac{1}{6} = \frac{2}{6}$
Georgia	$\frac{2}{6} + \frac{2}{6} + \frac{1}{6} = \frac{5}{6}$
Sita	$\frac{5}{6} + \frac{4}{6} = \frac{9}{6}$

2)

$\frac{2}{4}$	$\frac{7}{4}$	$\frac{6}{4}$
$\frac{9}{4}$	$\frac{5}{4}$	$\frac{1}{4}$
$\frac{4}{4}$	$\frac{3}{4}$	$\frac{8}{4}$

Children may find a different arrangement but as long as each line adds up to $\frac{15}{4}$, it can be marked as being correct.

$\frac{5}{4}$ must always be in the centre of the grid.

$\frac{2}{4}$, $\frac{4}{4}$, $\frac{6}{4}$ and $\frac{8}{4}$ must always be in the corners of the grid.