



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

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



b) $\frac{11}{6}$ or $1\frac{5}{6}$



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.

- 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 $\frac{10}{6}$.