How many different ways can you balance the equation?

$$\frac{5}{9} + \frac{\square}{9} = \frac{8}{9} + \frac{\square}{9}$$

$$\frac{5}{16} + \frac{\square}{8} = \frac{15}{16}$$

$$\frac{\square}{20} + \frac{7}{10} = \frac{17}{20}$$

Annie solved this calculation.



Two children are solving $\frac{1}{3} + \frac{4}{15}$

Eva starts by drawing this model:



Alex starts by drawing this model:

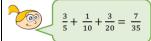


Can you explain each person's method and how they would complete the question?

Which method do you prefer and why?

Eva is attempting to answer:

$$\frac{3}{5} + \frac{1}{10} + \frac{3}{20}$$



Do you agree with Eva? Explain why.

Can you spot and explain her mistake?

Jack and Whitney have some juice.

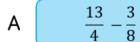
Jack drinks $2\frac{1}{4}$ litres and Whitney drinks $2\frac{5}{13}$ litres.

How much do they drink altogether?

Complete this using two different methods.

Which method do you think is more efficient? Why?

Which subtraction is the odd one out?

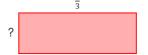


B
$$\frac{10}{3} - \frac{2}{9}$$

C
$$\frac{23}{7} - \frac{1}{3}$$

Explain why.

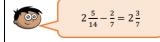
The perimeter of the rectangle is $\frac{16}{9}$



Work out the missing length.

Amir is attempting to solve $2\frac{5}{14} - \frac{2}{7}$

Here is his working out:



Do you agree with Amir? Explain your answer.