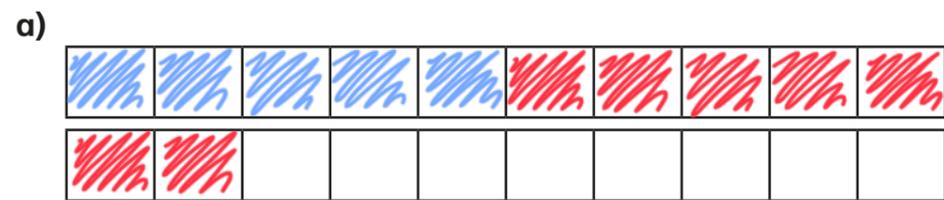


Add fractions

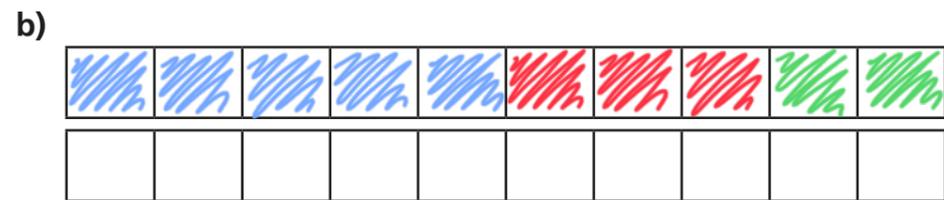


1 Complete the calculations.

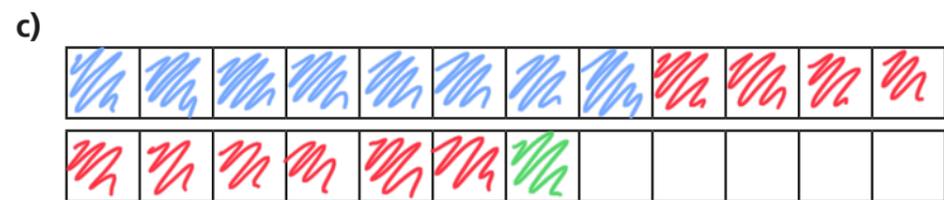
Use the bar models to help you.



$$\frac{1}{2} + \frac{7}{10} = \frac{12}{10} = 1\frac{1}{5}$$



$$\frac{1}{2} + \frac{3}{10} + \frac{1}{5} = \frac{10}{10} = 1$$



$$\frac{2}{3} + \frac{5}{6} + \frac{1}{12} = \frac{19}{12} = 1\frac{7}{12}$$

2 Complete the additions.

a) $\frac{4}{5} + \frac{7}{20} = \frac{23}{20} = 1\frac{3}{20}$

d) $\frac{4}{3} + \frac{5}{12} = \frac{21}{12} = 1\frac{3}{4}$

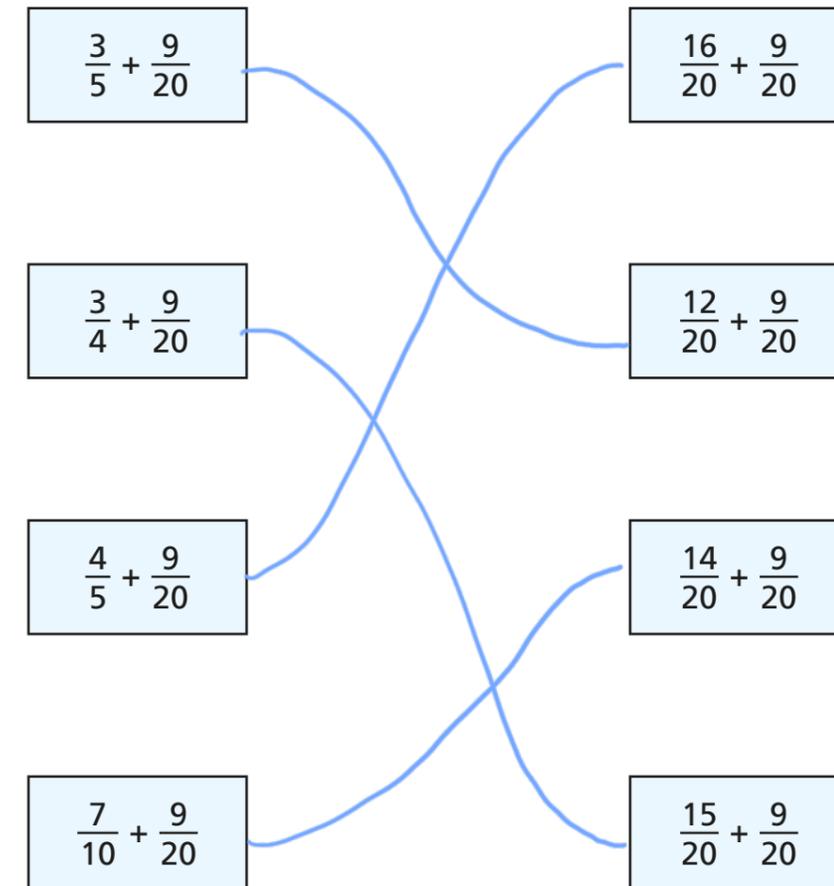
b) $\frac{5}{4} + \frac{7}{20} = \frac{32}{20} = 1\frac{3}{5}$

e) $\frac{3}{5} + \frac{11}{15} = \frac{20}{15} = 1\frac{1}{3}$

c) $\frac{3}{4} + \frac{5}{12} = \frac{14}{12} = 1\frac{1}{6}$

f) $\frac{5}{3} + \frac{11}{15} = \frac{36}{15} = 2\frac{2}{5}$

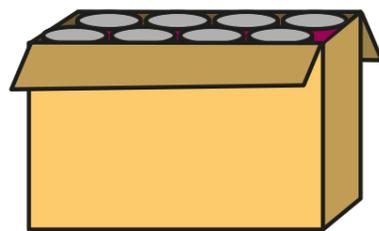
3 Match the additions that have the same answer.





4 Dexter has some tins of food. There are four types of food: beans, sweetcorn, soup and tomatoes.

- The total weight of all the tins is 2 kg.
- The tins of beans weigh $\frac{2}{3}$ kg.
- The tins of sweetcorn weigh $\frac{5}{12}$ kg.
- The tins of soup weigh $\frac{1}{4}$ kg.



a) Work out the total weight of the tins of beans, sweetcorn and soup.

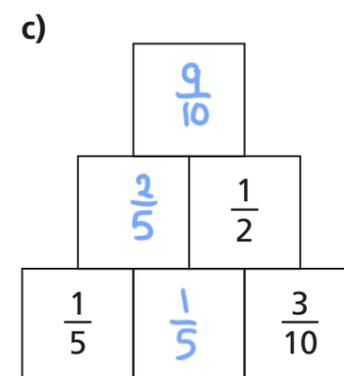
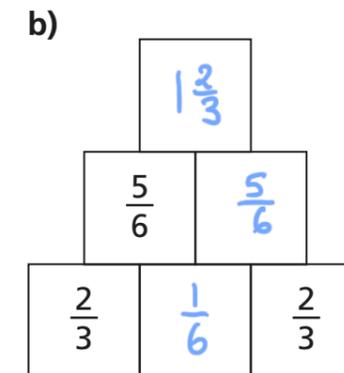
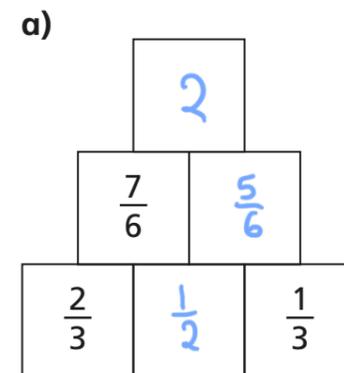
$$\boxed{1\frac{1}{3} \text{ kg}}$$

b) How much do the tins of tomatoes weigh?

$$\boxed{\frac{2}{3} \text{ kg}}$$



5 Complete the addition pyramids.



6 What could the three missing numerators be?

$$\frac{\square}{4} + \frac{\square}{12} + \frac{\square}{3} = \frac{13}{12}$$

Give three different possibilities.

$$\frac{1}{4} + \frac{6}{12} + \frac{1}{3} = \frac{13}{12}$$

$$\frac{2}{4} + \frac{3}{12} + \frac{1}{3} = \frac{13}{12}$$

$$\frac{1}{4} + \frac{2}{12} + \frac{2}{3} = \frac{13}{12}$$

