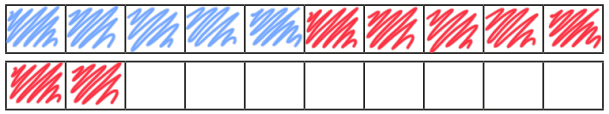
Add fractions

1 Complete the calculations.

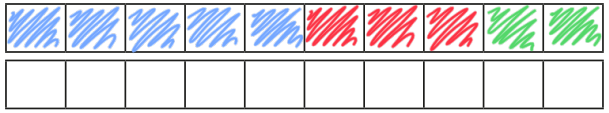
Use the bar models to help you.

a)



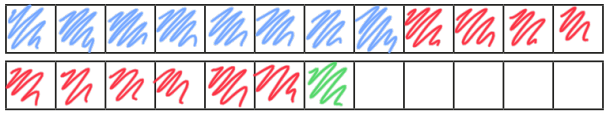
$\frac{1}{2} + \frac{7}{10} = \frac{12}{10} = 1\frac{1}{5}$

b)



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

c)



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

2 Complete the additions.

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

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

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

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

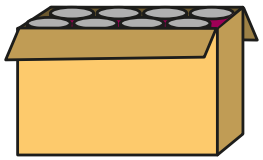
e) $\frac{3}{5} + \frac{11}{15} = \frac{20}{15} = 1\frac{1}{3}$

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

3 Match the additions that have the same answer.

$\frac{3}{5} + \frac{9}{20}$	$\frac{16}{20} + \frac{9}{20}$
$\frac{3}{4} + \frac{9}{20}$	$\frac{12}{20} + \frac{9}{20}$
$\frac{4}{5} + \frac{9}{20}$	$\frac{14}{20} + \frac{9}{20}$
$\frac{7}{10} + \frac{9}{20}$	$\frac{15}{20} + \frac{9}{20}$

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.

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

b) How much do the tins of tomatoes weigh?

$\frac{2}{3}$ kg

5 Complete the addition pyramids.

a)

	2	
$\frac{7}{6}$		$\frac{5}{6}$
$\frac{2}{3}$	$\frac{1}{2}$	$\frac{1}{3}$

b)

	$1\frac{2}{3}$	
$\frac{5}{6}$		$\frac{5}{6}$
$\frac{2}{3}$	$\frac{1}{6}$	$\frac{2}{3}$

c)

	$\frac{9}{10}$	
$\frac{2}{5}$		$\frac{1}{2}$
$\frac{1}{5}$	$\frac{1}{5}$	$\frac{3}{10}$

6 What could the three missing numerators be?

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

Give three different possibilities.

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

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

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