1 Complete the calculations.
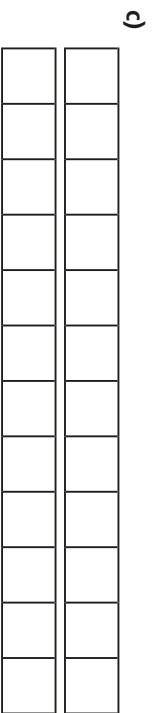
Use the bar models to help you.

a)

$\dfrac{1}{2} + \dfrac{7}{10} = \boxed{} = \boxed{}$

b)

$\dfrac{1}{2} + \dfrac{3}{10} + \dfrac{1}{5} = \boxed{} = \boxed{}$

c)
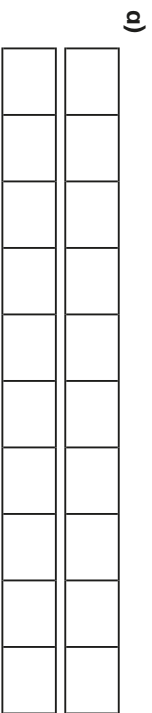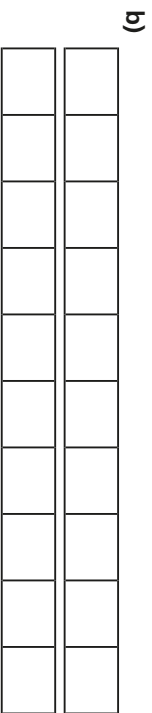
$\dfrac{2}{3} + \dfrac{5}{6} + \dfrac{1}{12} = \boxed{} = \boxed{}$

2 Complete the additions.

a) $\dfrac{4}{5} + \dfrac{7}{20} = \boxed{} = \boxed{}$

b) $\dfrac{5}{4} + \dfrac{7}{20} = \boxed{} = \boxed{}$

c) $\dfrac{3}{4} + \dfrac{5}{12} = \boxed{} = \boxed{}$

d) $\dfrac{4}{3} + \dfrac{5}{12} = \boxed{} = \boxed{}$

e) $\dfrac{3}{5} + \dfrac{11}{15} = \boxed{} = \boxed{}$

f) $\dfrac{5}{3} + \dfrac{11}{15} = \boxed{} = \boxed{}$

3 Match the additions that have the same answer.

$\dfrac{3}{5} + \dfrac{9}{20}$

$\dfrac{3}{4} + \dfrac{9}{20}$

$\dfrac{4}{5} + \dfrac{9}{20}$

$\dfrac{7}{10} + \dfrac{9}{20}$

$\dfrac{16}{20} + \dfrac{9}{20}$

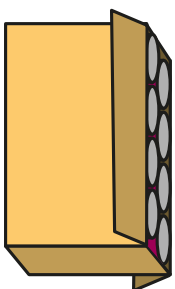$\dfrac{12}{20} + \dfrac{9}{20}$

$\dfrac{14}{20} + \dfrac{9}{20}$

$\dfrac{15}{20} + \dfrac{9}{20}$

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.
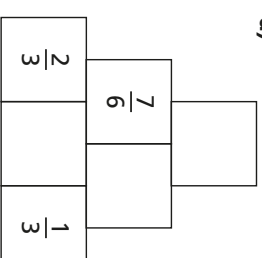
- The tins of soup weigh $\frac{1}{4}$ kg.

a) Work out the total weight of the tins of beans, sweetcorn and soup.
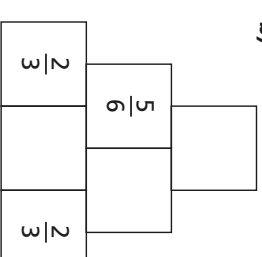
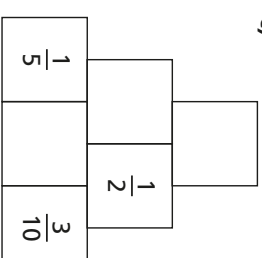b) How much do the tins of tomatoes weigh?

5 Complete the addition pyramids.

a)

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

b)

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

c)

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

6 What could the three missing numerators be?

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

Give three different possibilities.

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

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

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