## Task 1

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

b)


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

c)


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

2 Complete the additions.
a) $\frac{4}{5}+\frac{7}{20}=\square=\square$
b) $\frac{5}{4}+\frac{7}{20}=\square=\square$
c) $\frac{3}{4}+\frac{5}{12}=\square=\square$
d) $\frac{4}{3}+\frac{5}{12}=\square=\square$
e) $\frac{3}{5}+\frac{11}{15}=\square=\square$
f) $\frac{5}{3}+\frac{11}{15}=\square=\square$

3 Match the additions that have the same answer.

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

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

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

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

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

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

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

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

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 $\frac{2}{3} \mathrm{~kg}$.

- The tins of sweetcorn weigh $\frac{5}{12} \mathrm{~kg}$.
- The tins of soup weigh $\frac{1}{4} \mathrm{~kg}$.
a) Work out the total weight of the tins of beans, sweetcorn and soup.

b) How much do the tins of tomatoes weigh?


Complete the addition pyramids.
a)


c)


What could the three missing numerators be?

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

Give three different possibilities.
$\frac{\square}{4}+\frac{\square}{12}+\frac{\square}{3}=\frac{\square 3}{12}$
$\frac{\square}{4}+\frac{\square}{12}+\frac{\square}{3}=\frac{13}{12}$
$\frac{\square}{4}+\frac{\square}{12}+\frac{\square}{3}=\frac{13}{12}$


- If the answer to a word problem involving subtracting fractions with different denominators is $\frac{14}{32}$, what could the question be?
- Katie subtracted $\frac{3}{5}$ away from a fraction
and her answer was $\frac{8}{45^{\circ}}$. What was the original question?
- Think of 3 questions for adding fractions with different denominators where the answer is $\frac{15}{17}$.
Could you do it? Why? Why not?

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

b)

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) $\frac{5}{4}+\frac{7}{20}=\frac{32}{20}=\square \frac{3}{5}$
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.


## Task 2

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 $\frac{2}{3} \mathrm{~kg}$.

- The tins of sweetcorn weigh $\frac{5}{12} \mathrm{~kg}$.
- The tins of soup weigh $\frac{1}{4} \mathrm{~kg}$.
a) Work out the total weight of the tins of beans, sweetcorn and soup.
b) How much do the tins of tomatoes weigh?

Complete the addition pyramids.
a)




What could the three missing numerators be?

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

Give three different possibilities.

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

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

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

- If the answer to a word problem involving subtracting fractions with different denominators is $\frac{14}{32}$, what could the question be?
- Katie subtracted $\frac{3}{5}$ away from a fraction and her answer was $\frac{8}{45}$. What was the original question?
- Think of 3 questions for adding fractions with different denominators where the answer is $\frac{15}{17}$. Could you do it? Why? Why not?

Part 1 - different questions - will vary
Part $2-7 / 9-3 / 5$ or 35/45-27/45
Part 3 - Different questions - will vary

