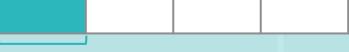


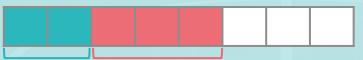


1) Ffion is adding 3 fractions together. Here are her workings.

$$\frac{1}{4} + \frac{3}{8} + \frac{2}{16} =$$



 $\frac{1}{4}$



 $\frac{2}{8}$ $\frac{3}{8}$



$$\frac{4}{16}$$
 $\frac{6}{16}$ $\frac{2}{16}$



$$\frac{4}{16} + \frac{6}{16} + \frac{2}{16} = \frac{12}{16}$$

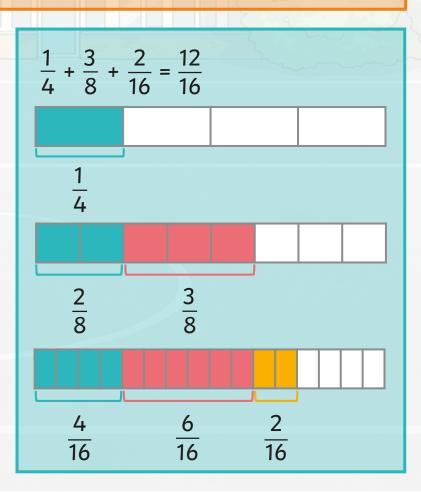
This is the same as $\frac{1}{4} + \frac{3}{8} + \frac{2}{16} = \frac{12}{16}$.



$$\alpha) \ \frac{1}{2} + \frac{1}{4} + \frac{3}{16} =$$

b)
$$\frac{1}{3} + \frac{2}{6} + \frac{1}{12} =$$

c)
$$\frac{1}{8} + \frac{1}{2} + \frac{1}{4} =$$



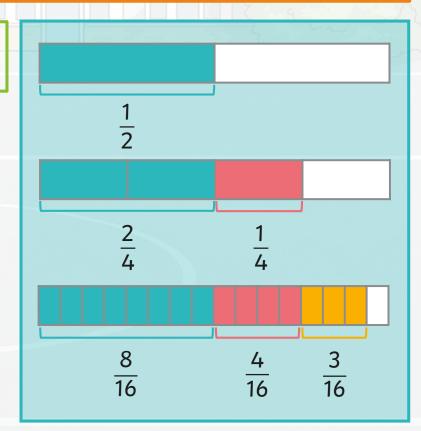


a)
$$\frac{1}{2} + \frac{1}{4} + \frac{3}{16} =$$

$$\frac{8}{16} + \frac{4}{16} + \frac{3}{16} = \frac{15}{16}$$

b)
$$\frac{1}{3} + \frac{2}{6} + \frac{1}{12} =$$

c)
$$\frac{1}{8} + \frac{1}{2} + \frac{1}{4} =$$





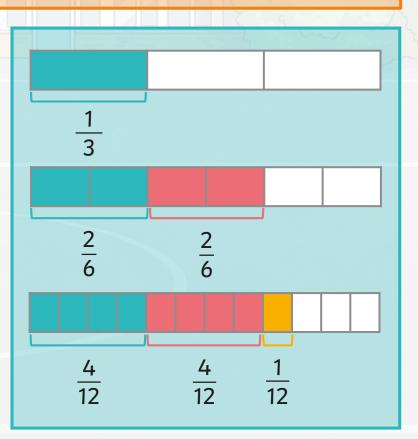
$$\alpha) \frac{1}{2} + \frac{1}{4} + \frac{3}{16} =$$

$$\frac{8}{16} + \frac{4}{16} + \frac{3}{16} = \frac{15}{16}$$

b)
$$\frac{1}{3} + \frac{2}{6} + \frac{1}{12} =$$

b)
$$\frac{1}{3} + \frac{2}{6} + \frac{1}{12} = \frac{4}{12} + \frac{4}{12} + \frac{1}{12} = \frac{9}{12}$$

c)
$$\frac{1}{8} + \frac{1}{2} + \frac{1}{4} =$$





$$\alpha) \frac{1}{2} + \frac{1}{4} + \frac{3}{16} =$$

a)
$$\frac{1}{2} + \frac{1}{4} + \frac{3}{16} = \frac{8}{16} + \frac{4}{16} + \frac{3}{16} = \frac{15}{16}$$

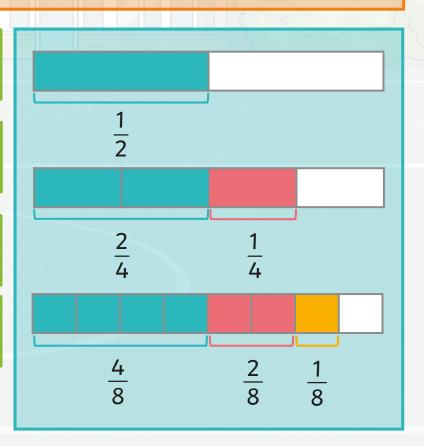
b)
$$\frac{1}{3} + \frac{2}{6} + \frac{1}{12} =$$

b)
$$\frac{1}{3} + \frac{2}{6} + \frac{1}{12} = \boxed{\frac{4}{12} + \frac{4}{12} + \frac{1}{12} = \frac{9}{12}}$$

c)
$$\frac{1}{8} + \frac{1}{2} + \frac{1}{4} = \frac{1}{2} + \frac{1}{4} + \frac{1}{8} = \frac{1}{2} + \frac{1}{4} + \frac{1}{8} = \frac{1}{4} + \frac{1}{4} + \frac{1}{8} = \frac{1}{4} + \frac{1}{4} + \frac{1}{8} = \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{1}{4} + \frac$$

$$\frac{1}{2} + \frac{1}{4} + \frac{1}{8} =$$

$$\frac{4}{8} + \frac{2}{8} + \frac{1}{8} = \frac{7}{8}$$





2) Match the calculation to the correct answer:

$$\frac{2}{3} + \frac{1}{12} + \frac{1}{6}$$

$$\frac{1}{2} + \frac{1}{4} + \frac{1}{8}$$

$$\frac{3}{12} + \frac{1}{3} + \frac{1}{6}$$

$$\frac{7}{8}$$



You can add these fractions by finding the common denominator.



$$\frac{2}{5} + \frac{1}{3} + \frac{2}{15}$$

The common denominator is 15 as both 5 and 3 are multiples of 15.

$$\frac{6}{15} + \frac{5}{15} + \frac{2}{15} = \frac{13}{15}$$



True or false? Prove it!

If false, what mistakes do you think were made?

$$\frac{1}{8} + \frac{1}{4} + \frac{3}{16} = \frac{9}{16}$$

True

$$\frac{1}{2} + \frac{1}{10} + \frac{2}{5} = \frac{4}{17}$$

False

$$\frac{5}{10} + \frac{1}{10} + \frac{4}{10} = \frac{10}{10}$$

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

True

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

False

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

Add 3 or More Fractions

Deeper



Hassan is sorting his marbles.



 $\frac{1}{4}$ are red.

$$\frac{1}{4}$$
 (or $\frac{4}{16}$) are red.



 $\frac{1}{8}$ are blue.

$$\frac{1}{8}$$
 (or $\frac{2}{16}$) are blue.



 $\frac{5}{16}$ are yellow.

$$\frac{5}{16}$$
 are yellow.



The rest are green.

$$\frac{4}{16} + \frac{2}{16} + \frac{5}{16} = \frac{11}{16}$$



What fraction of the marbles are green?

 $\frac{5}{16}$ of the marbles are green.