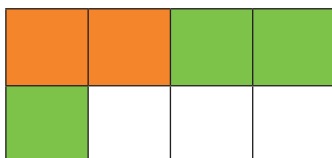




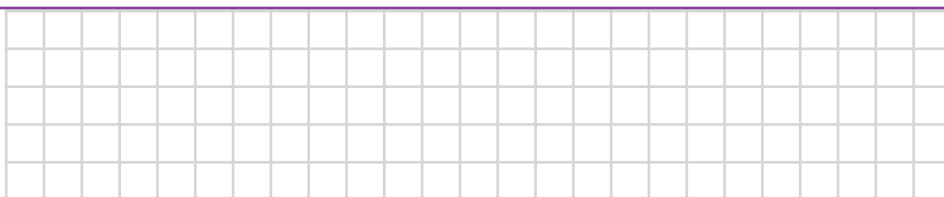
1) Rhys is adding fractions. Complete the calculation using his bar models to help.



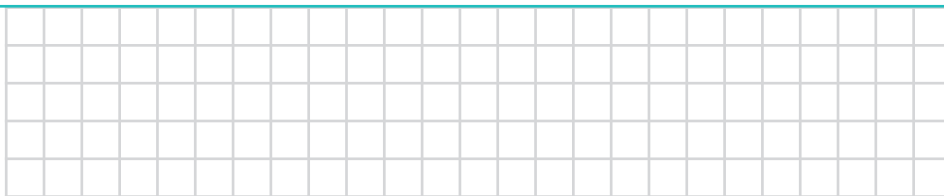
a)  $\frac{1}{\square} + \frac{3}{\square} + \frac{3}{\square} = \frac{\square}{8} = \frac{\square}{\square} = \frac{\square}{\square}$

Using Rhys' method, find the total of these fractions. Remember to use your knowledge to convert the improper fraction to a mixed number.

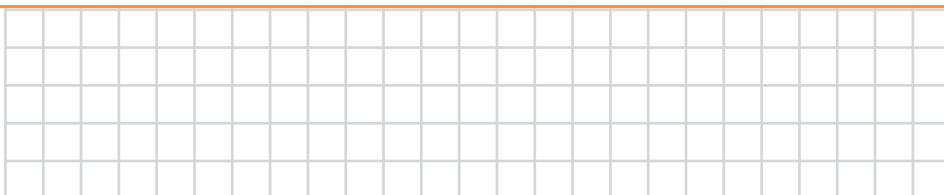
b)  $\frac{1}{2} + \frac{1}{4} + \frac{5}{8} = \underline{\hspace{2cm}}$



c)  $\frac{2}{3} + \frac{3}{6} + \frac{7}{12} = \underline{\hspace{2cm}}$



d)  $\frac{1}{4} + \frac{5}{8} + \frac{9}{16} = \underline{\hspace{2cm}}$



Match the calculation to the correct answer.

$\frac{2}{3} + \frac{5}{12} + \frac{5}{6}$

$1\frac{8}{12}$

$\frac{1}{2} + \frac{5}{12} + \frac{3}{4}$

$1\frac{11}{12}$

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

$1\frac{2}{12}$



1) True or false? Prove it!

a)  $\frac{5}{8} + \frac{1}{4} + \frac{5}{16} = 1\frac{3}{16}$

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b)  $\frac{1}{2} + \frac{3}{7} + \frac{4}{14} = \frac{7}{23}$

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c)  $\frac{1}{3} + \frac{2}{5} + \frac{7}{15} = 1\frac{18}{15}$

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

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If false, what mistake do you think has been made?

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2) Using each fraction card only once, place all 6 fractions correctly to complete these 2 calculations.

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

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

$$\frac{4}{6}$$

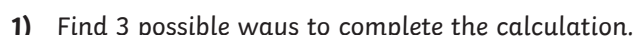
$$\frac{4}{12}$$

$$\frac{1}{2}$$

$$\frac{3}{4}$$

$$\square + \square + \square = 1\frac{5}{6}$$

$$\square + \square + \square = 1\frac{5}{12}$$



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

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

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

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

Show your working here:

[illegible]

**2)** Jessie adds 3 fractions together.

Each of the 3 fractions has a different denominator.

The total of the 3 fractions is greater than 1 but less than 2.

The denominators are all factors of 8.

Each of the 3 fractions is less than 1 .



What could the calculation be? Find all possibilities.

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