

Thursday 21.01.21

To add 3 or more fractions

Challenge 1

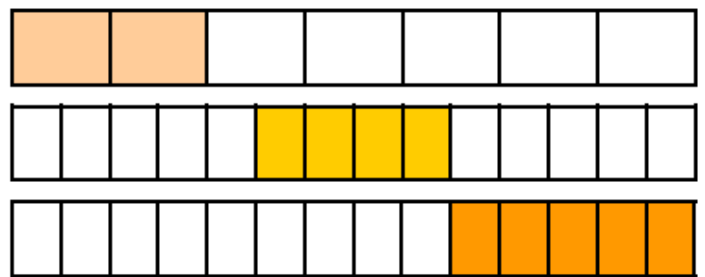
1) Complete the calculation.

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



2) Complete the calculation.

$$\frac{2}{7} + \frac{4}{14} + \frac{5}{14} = \frac{\square}{\square}$$



3) Match the calculations to the correct answers.

A.  $\frac{2}{8} + \frac{3}{16} + \frac{6}{16} =$



$\frac{15}{16}$

B.  $\frac{1}{8} + \frac{7}{16} + \frac{6}{16} =$

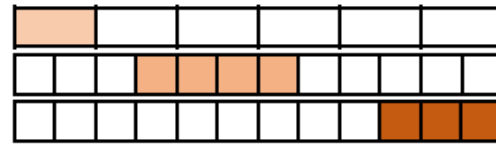


$\frac{14}{16}$

$\frac{13}{16}$

4) Match the calculations to the correct answers.

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



$\frac{11}{12}$

B.  $\frac{2}{6} + \frac{2}{12} + \frac{5}{12} =$



$\frac{9}{12}$

$\frac{10}{12}$

5) Use the clues below to work out which 3 fractions add together to total  $\frac{8}{10}$ .

- One of the fractions is  $\frac{2}{5}$ .
- The other two denominators have the same value as each other.
- The other two numerators are odd.

6) True or false? Lola's calculation gives the larger answer.



$$\frac{1}{7} + \frac{4}{14} + \frac{3}{14}$$

$$\frac{1}{7} + \frac{3}{14} + \frac{3}{14}$$



Explain your answer.

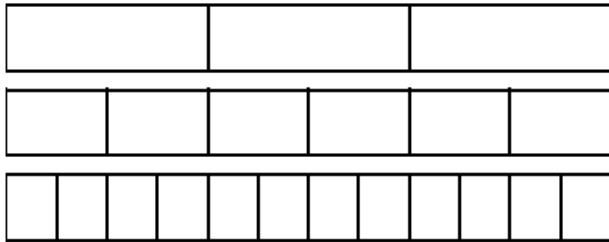
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Challenge 2

1) Complete the calculation.

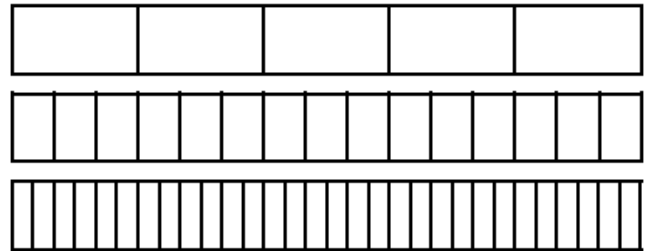
$$\frac{1}{3} + \frac{1}{6} + \frac{3}{12} = \frac{\square}{\square}$$



Shade the bar model to help you.

2) Complete the calculation.

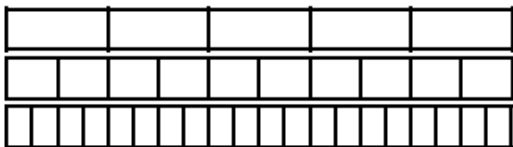
$$\frac{1}{5} + \frac{2}{15} + \frac{3}{30} = \frac{\square}{\square}$$



Shade the bar model to help you.

3) Match the calculations to the correct answers.

A.  $\frac{2}{5} + \frac{2}{10} + \frac{2}{20} =$



$\frac{15}{20}$

B.  $\frac{1}{5} + \frac{4}{10} + \frac{3}{20} =$



$\frac{14}{20}$

$\frac{16}{20}$

4) Match the calculations to the correct answers.

A.  $\frac{1}{2} + \frac{2}{8} + \frac{2}{24} =$



$\frac{22}{24}$

B.  $\frac{1}{4} + \frac{3}{8} + \frac{6}{24} =$



$\frac{21}{24}$

$\frac{20}{24}$

5) Use the clues below to work out which 3 fractions add together to total  $\frac{11}{12}$ .

- One of the denominators is 12. All of the denominators are even.
- One denominator is half of the other.
- One fraction is a half.
- No numerator is greater than 2.

6) True or false? Sue's calculation gives the larger answer.



Sue

$$\frac{1}{5} + \frac{3}{10} + \frac{2}{20}$$

$$\frac{2}{5} + \frac{1}{10} + \frac{6}{20}$$



Joe

Explain your answer.

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Challenge 3

1) Complete the calculation.

$$\frac{2}{3} + \frac{1}{7} + \frac{1}{6} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$$

2) Complete the calculation.

$$\frac{1}{3} + \frac{2}{8} + \frac{2}{6} = \frac{\boxed{\phantom{000}}}{\boxed{\phantom{000}}}$$

3) Match the calculations to the correct answers.

A.  $\frac{1}{4} + \frac{1}{6} + \frac{1}{3} =$

$\frac{3}{4}$

$\frac{16}{24}$

B.  $\frac{1}{3} + \frac{1}{4} + \frac{1}{8} =$

$\frac{17}{24}$

4) Match the calculations to the correct answers.

A.  $\frac{2}{5} + \frac{1}{6} + \frac{4}{15} =$

$\frac{9}{10}$

$\frac{5}{6}$

B.  $\frac{1}{3} + \frac{1}{6} + \frac{6}{15} =$

$\frac{5}{10}$

5) Use the clues below to work out which 3 fractions add together to total  $\frac{26}{30}$ .

- One denominator is 30. The others are different multiples of 5.
- One denominator can go into 30 three times.
- All of the numerators are even.
- No numerator is greater than 4.

6) True or false? Kai's calculation gives the larger answer.



Rosie

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

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



Kai

Explain your answer.