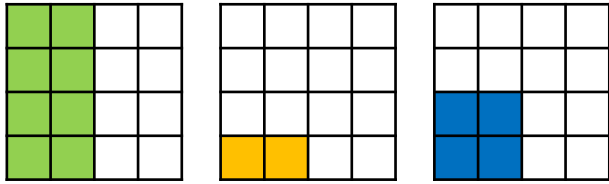


## Add 3 or More Fractions

4a. Priya has added three fractions based on the models below.



$$\frac{1}{2} + \frac{2}{16} + \frac{1}{4} = \frac{14}{22}$$

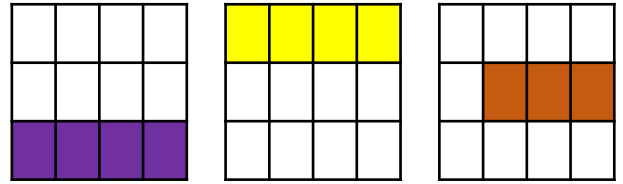
Is she correct? Prove it.



R

## Add 3 or More Fractions

4b. Tony has added three fractions based on the models below.



$$\frac{1}{3} + \frac{2}{6} + \frac{2}{12} = \frac{10}{12}$$

Is he correct? Prove it.



R

5a. Use the clues below to work out which 3 fractions add together to total  $\frac{14}{18}$ .

- One of the denominators is 18. Another is half of this.
- One of the denominators is a third of 9.
- No numerator is greater than 4.
- Two of the numerators are even and one is half the size of the other.



PS

5b. 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.



PS

6a. 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.



R

6b. True or false? Tim's calculation gives the larger answer?



Emmy

$$\frac{1}{7} + \frac{3}{14} + \frac{2}{28}$$

$$\frac{3}{7} + \frac{2}{14} + \frac{1}{28}$$



Tim

Explain your answer.



R