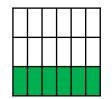
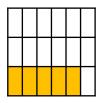
# Add 3 or More Fractions

# **Add 3 or More Fractions**

1b. Rick has added three fractions based

1a. Martha has added three fractions based on the models below.







$$\frac{3}{9} + \frac{5}{18} + \frac{6}{18} = \frac{14}{18}$$

$$\frac{4}{8} + \frac{2}{16} + \frac{3}{16} = \frac{9}{40}$$

Is she correct? Prove it.

127

Is he correct? Prove it.

on the models below.



2a. Use the clues below to work out which 3 fractions add together to total  $\frac{8}{10}$ .

- 2b. Use the clues below to work out which 3 fractions add together to total  $\frac{10}{14}$ .
- 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.
- One of the fractions is  $\frac{2}{8}$ .
- The other two denominators have the same value as each other.
- The other two numerators are even.

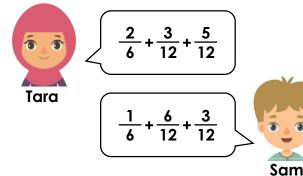


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3a. True or false? Lola's calculation gives the larger answer.

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

3b. True or false? Sam's calculation gives the larger answer.



Explain your answer.



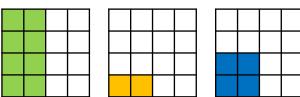
Explain your answer.



## Add 3 or More Fractions

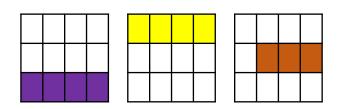
## **Add 3 or More Fractions**

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



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

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.



Is she correct? Prove it.

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

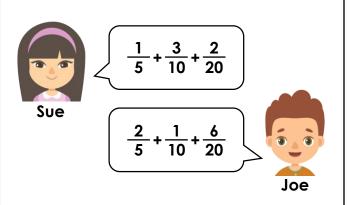
- One of the denominators is 18. Another is half of this.
- One of the denominators is a third of 9.
- No numerator is greater than 4.
- Two of the numerators are even and one is half the size of the other.

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

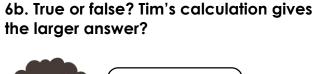
- One of the denominators is 12. All of the denominators are even.
- One denominator is half of the other.
- One fraction is a half.
- No numerator is greater than 2.

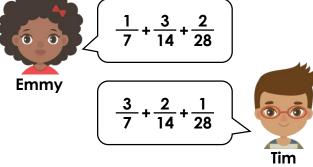


6a. True or false? Sue's calculation gives the larger answer.



Explain your answer.





Explain your answer.





# Add 3 or More Fractions

# **Add 3 or More Fractions**

7a. Rita solved the calculation below.

7b. Noel has solved the calculation below.

$$\frac{1}{6} + \frac{1}{3} + \frac{1}{4} + \frac{1}{9} = \frac{32}{36}$$

$$\frac{1}{14} + \frac{2}{6} + \frac{1}{2} + \frac{1}{21} = \frac{40}{42}$$

Is she correct? Prove it.

Is he correct? Prove it.



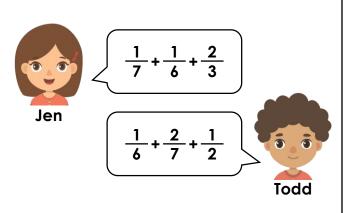
- One denominator is 36. Two of the denominators are less than 10 but greater than 5.
- The denominators are all different and are factors of 36.
- One of the numerators is 2.
- The other two numerators are odd.

8a. Use the clues below to work out which 8b. Use the clues below to work out which 3 fractions add together to total  $\frac{25}{34}$ . 3 fractions add together to total  $\frac{26}{30}$ .

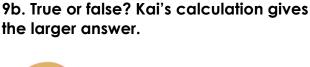
- One denominator is 30. The others are different multiples of 5.
- One denominator can go into 30 three times.
- All of the numerators are even.
- No numerator is greater than 4.

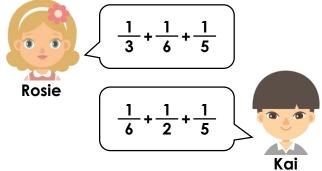


9a. True or false? Jen's calculation gives the larger answer.



Explain your answer.





Explain your answer.

