

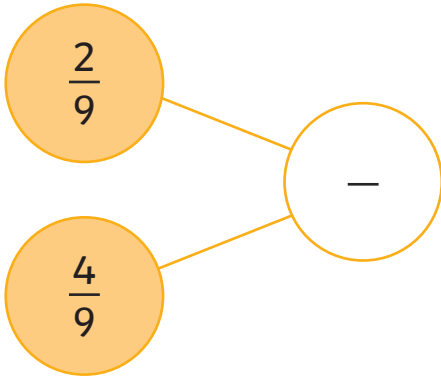
- 1) Use the bar model to work out which fractions have been added together. Then, complete the number sentence and find the total.



- 2) Draw a bar model to show this number sentence:

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

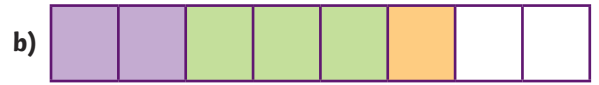
- 3) Complete the part-whole model.



- 4) Complete the number sentence.

$$\frac{\square}{11} + \frac{3}{\square} + \frac{\square}{11} = \frac{10}{11}$$

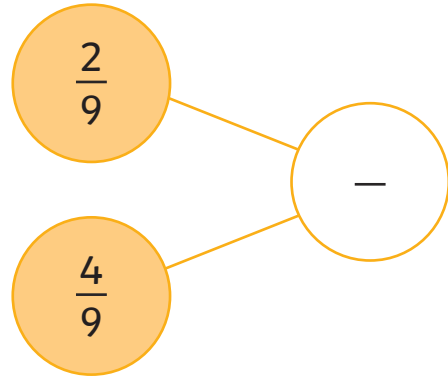
- 1) Use the bar model to work out which fractions have been added together. Then, complete the number sentence and find the total.



- 2) Draw a bar model to show this number sentence:

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

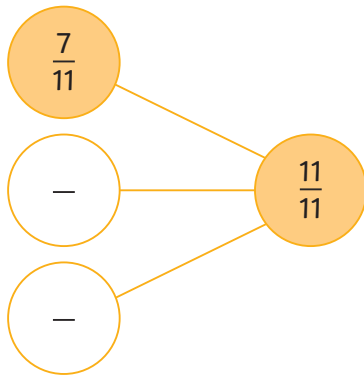
- 3) Complete the part-whole model.



- 4) Complete the number sentence.

$$\frac{\square}{11} + \frac{3}{\square} + \frac{\square}{11} = \frac{10}{11}$$

- 1) Find 2 ways to solve the part-whole model.



- 2) Some children are checking their work on fractions.

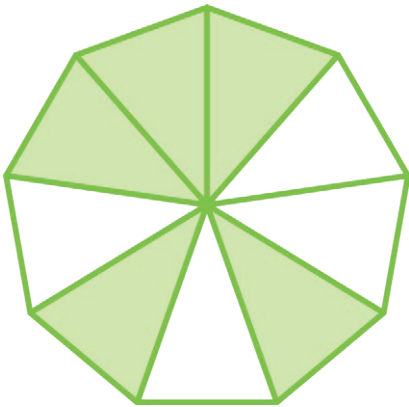
$$\frac{2}{8} + \frac{2}{8} = \frac{4}{16}$$

Ahmed



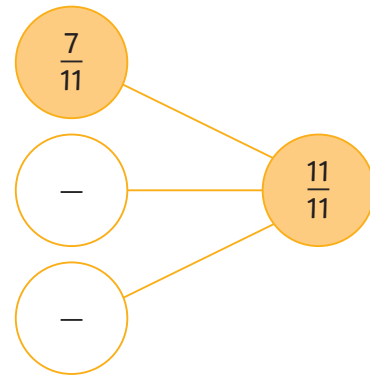
Do you agree with Ahmed? Explain with reasoning.

- 3) A shape has been part shaded.



- a) What 2 fractions could have been added together to create this shape? Find 2 possibilities.
- b) What 3 fractions could have been added together to create this shape? Find 2 possibilities.

- 1) Find 2 ways to solve the part-whole model.



- 2) Some children are checking their work on fractions.

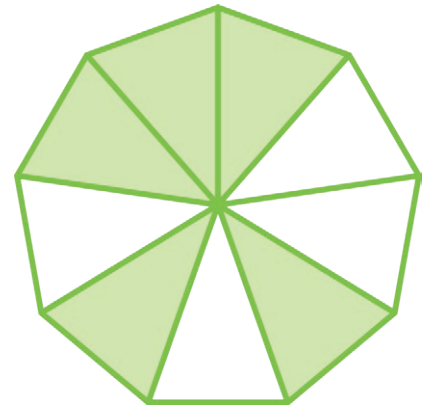
$$\frac{2}{8} + \frac{2}{8} = \frac{4}{16}$$

Ahmed



Do you agree with Ahmed? Explain with reasoning.

- 3) A shape has been part shaded.

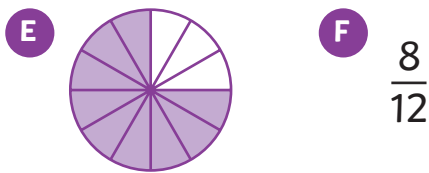
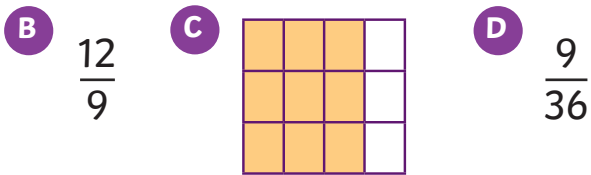


- a) What 2 fractions could have been added together to create this shape? Find 2 possibilities.
- b) What 3 fractions could have been added together to create this shape? Find 2 possibilities.

- 1) Children have been adding together 3 fractions.



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



Half of these representations show the correct answer.

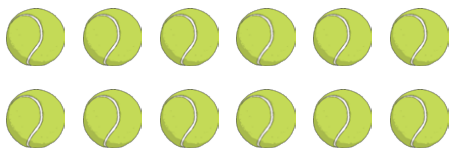
Ingrid



Is Ingrid correct? For the representations that don't show the correct answer, explain what could have gone wrong.

- 2) 2 children are given tennis balls during sports practice. Each child is given an odd number of balls.

How many number sentences can you think of that show the number of tennis balls that each child was given?



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

- 3) Jim says it is impossible for both missing numerators to be even numbers.

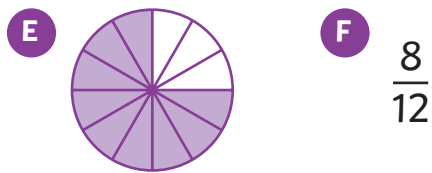
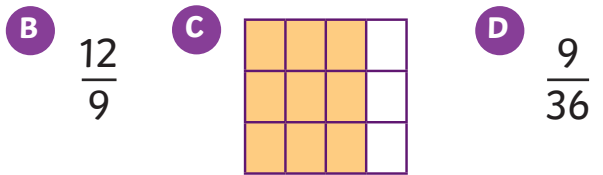
Is Jim correct? Explain with reasoning.

$$\frac{1}{\square} + \frac{\square}{15} + \frac{5}{\square} + \frac{\square}{15} = \frac{13}{15}$$

- 1) Children have been adding together 3 fractions.



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



Half of these representations show the correct answer.

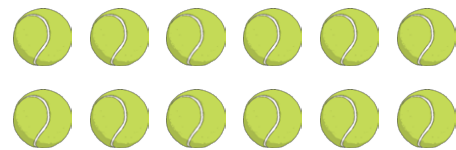
Ingrid



Is Ingrid correct? For the representations that don't show the correct answer, explain what could have gone wrong.

- 2) 2 children are given tennis balls during sports practice. Each child is given an odd number of balls.

How many number sentences can you think of that show the number of tennis balls that each child was given?



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

- 3) Jim says it is impossible for both missing numerators to be even numbers.

Is Jim correct? Explain with reasoning.

$$\frac{1}{\square} + \frac{\square}{15} + \frac{5}{\square} + \frac{\square}{15} = \frac{13}{15}$$