



Learning Question:

How can I add fractions with the same denominator to make a whole.

Success Criteria:

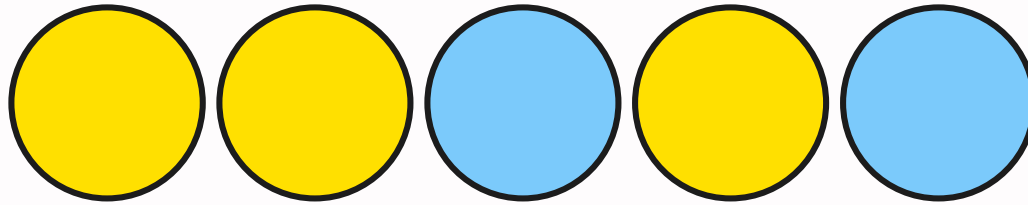
Recognise a fraction as a part of a whole.

Use diagrams to show how to add fractions with the same denominator.

Know that the denominator will not change when adding fractions.

Understand that when the numerator and denominator are the same it is equivalent to a whole.

Vocabulary



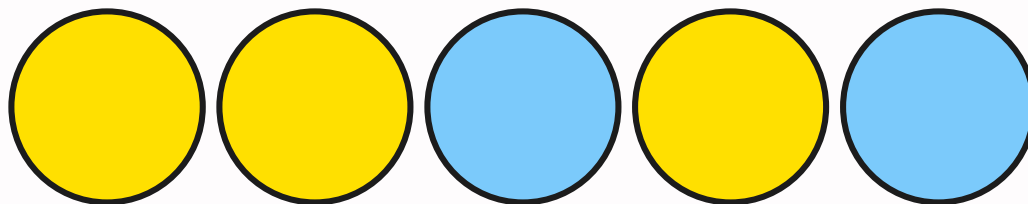
What fraction of the counters are yellow?

$$\frac{3}{5}$$

$$\frac{2}{5}$$

$$\frac{5}{5}$$

$$\frac{1}{5}$$



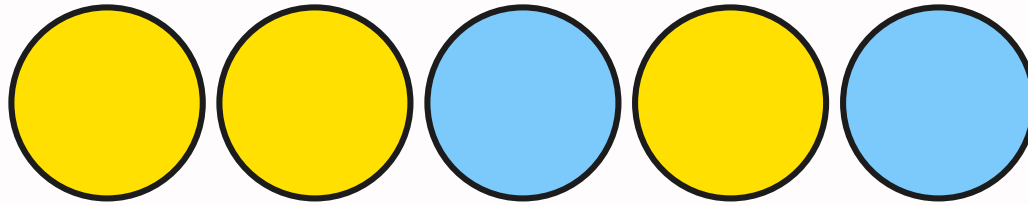
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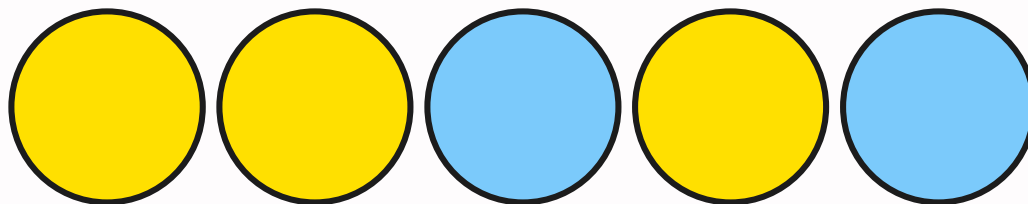
What fraction of the counters are blue?

$$\frac{3}{5}$$

$$\frac{2}{5}$$

$$\frac{5}{5}$$

$$\frac{1}{5}$$



What fraction of the counters are blue and yellow?

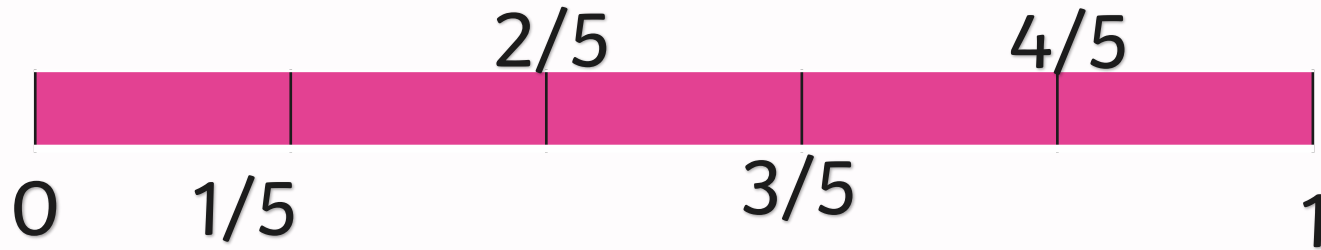
$$\frac{3}{5}$$

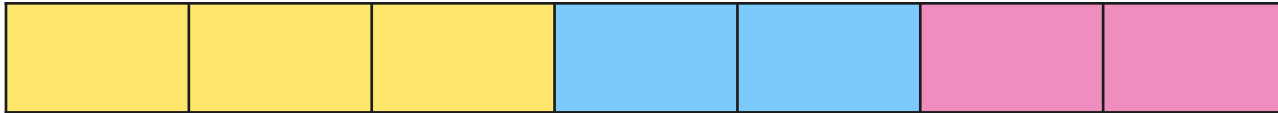
$$\frac{2}{5}$$

$$\frac{5}{5}$$

$$\frac{1}{5}$$

$5/5$ is equal to 1 whole





Which number sentence satisfies the bar model?

$$\frac{2}{7} + \frac{2}{7} + \frac{3}{7} = \frac{7}{7}$$

$$\frac{2}{7} + \frac{3}{7} + \frac{1}{7} = \frac{7}{7}$$

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

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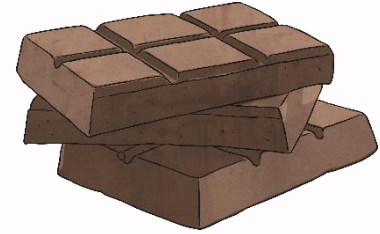
 $\frac{3}{7}$ $\frac{2}{7}$ $\frac{2}{7}$ 

Making the Whole

Deeper

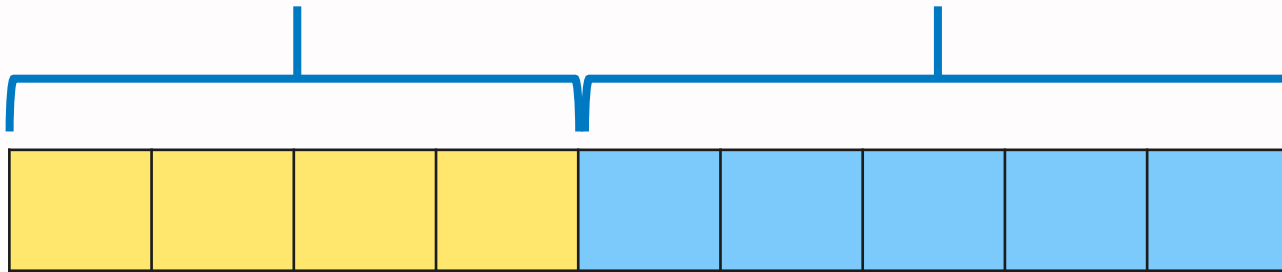


My chocolate bar is broken into 9 equal pieces. I eat 4 pieces and Alex eats 5.



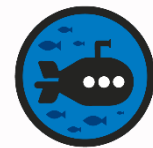
Does Brienne have any chocolate left? Explain with reasoning.

$$\frac{4}{9} + \frac{5}{9} = \frac{9}{9}$$

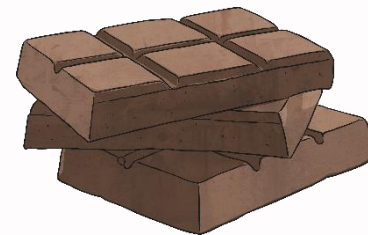


Making the Whole

Deeper

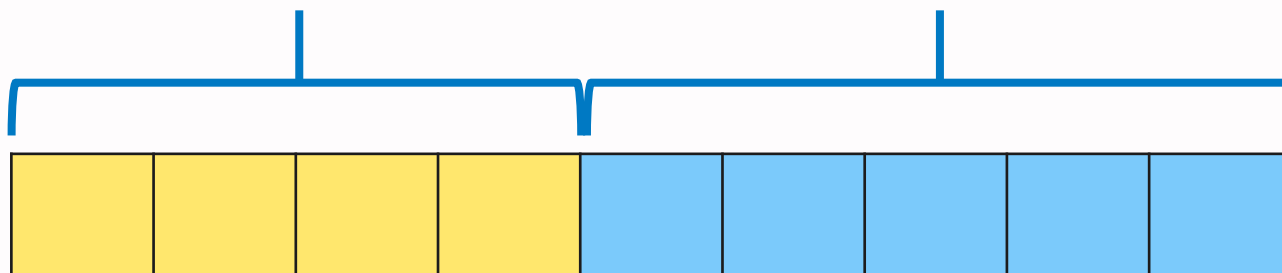


My chocolate bar is broken into 9 equal pieces. I eat 4 pieces and Alex eats 5.



Does Brienne have any chocolate left? Explain with reasoning.

$$\frac{4}{9} + \frac{5}{9} = \frac{9}{9}$$



All $\frac{9}{9}$ of the chocolate have been eaten. There is no chocolate left.

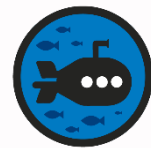


True or false?

$$\frac{4}{4} \text{ and } \frac{3}{3}$$

Both of these fractions
are equal to one whole.

Choose an appropriate method and explain with reasoning.

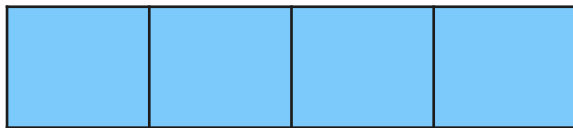


True or false?

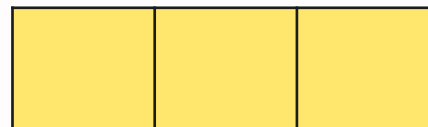
$$\frac{4}{4} \text{ and } \frac{3}{3}$$

Both of these fractions are equal to one whole.

Choose an appropriate method and explain with reasoning.



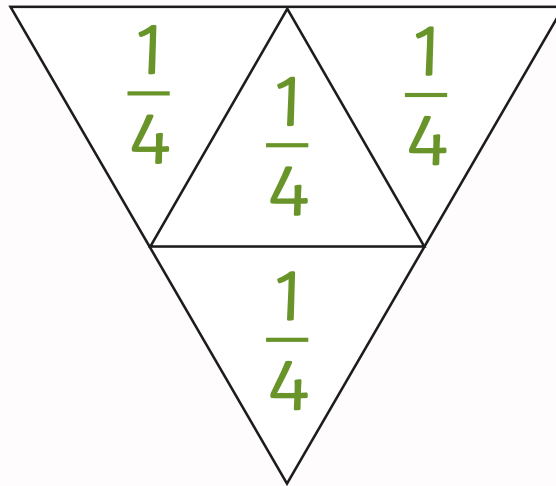
$\frac{4}{4}$ is equivalent to one whole



$\frac{3}{3}$ is equivalent to one whole

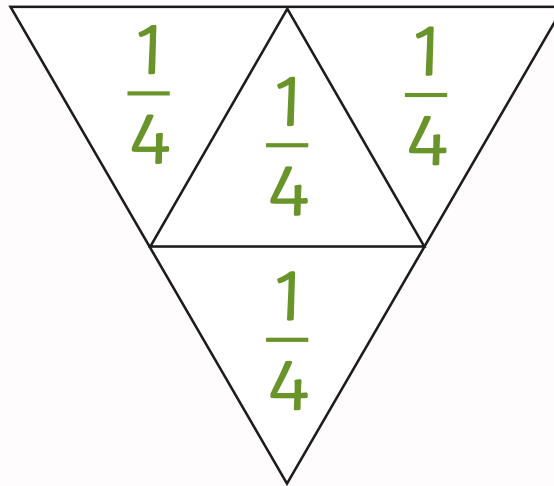


The shape is divided into four equal parts that add together to make a whole. Do you agree?





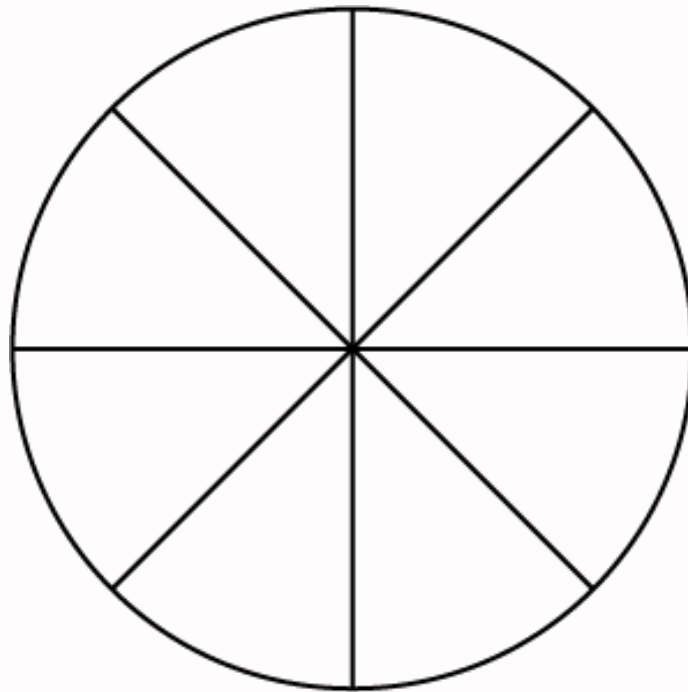
The shape is divided into four equal parts that add together to make a whole. Do you agree?



All four parts are equal and total $\frac{4}{4}$ altogether.



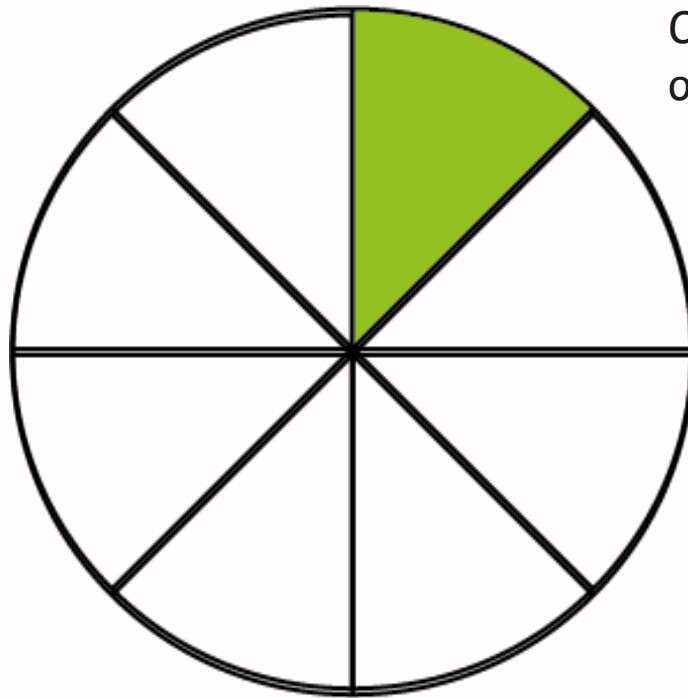
Cici ate $\frac{1}{8}$ of a pizza, Woody ate $\frac{1}{4}$ and Rustie ate the rest. How much pizza did each person eat? Draw and label your answer.



We will
work
through
on the
following
slides.



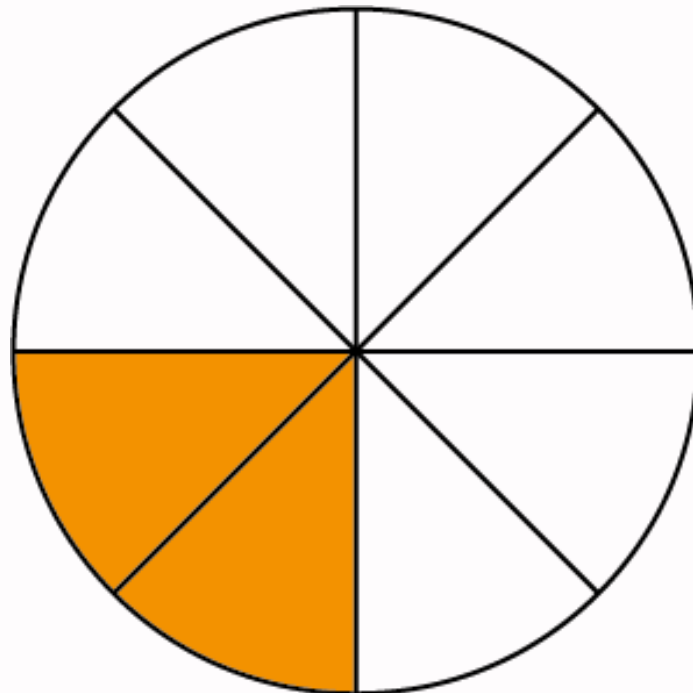
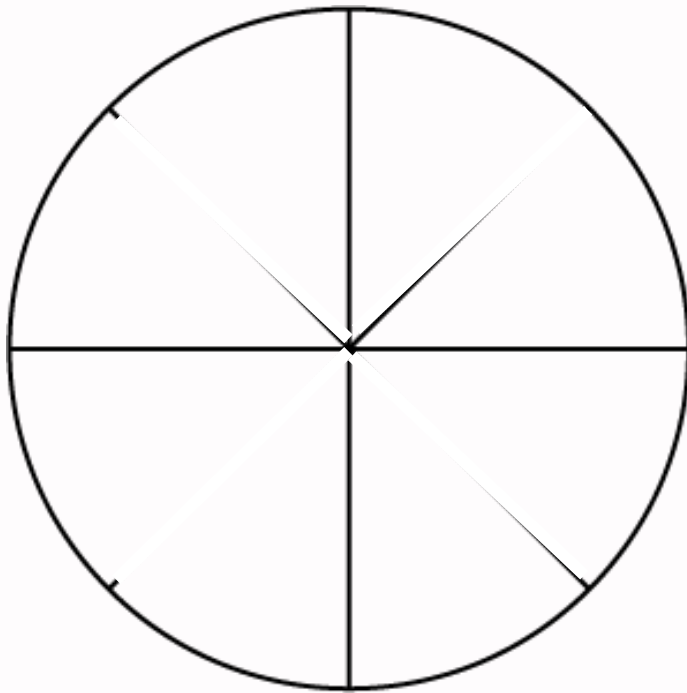
Cici ate $\frac{1}{8}$ of a pizza, Woody ate $\frac{1}{4}$ and Rustie ate the rest. How much pizza did each person eat? Draw and label your answer.



Cici ate 1 slice out of 8 in total.



Cici ate $\frac{1}{8}$ of a pizza, Woody ate $\frac{1}{4}$ and Rustie ate the rest. How much pizza did each person eat? Draw and label your answer.



$\frac{1}{4}$ is equal to $\frac{2}{8}$ so Woody ate 2 slices of pizza.



Cici ate $\frac{1}{8}$ of a pizza, Woody ate $\frac{1}{4}$ and Rustie ate the rest. How much pizza did each person eat? Draw and label your answer.

$\frac{1}{8} + \frac{2}{8} = \frac{3}{8}$
Cici and Woody
ate $\frac{3}{8}$ between
them.

Rustie ate the
rest.
The whole pizza
was eaten.

The whole is
 $\frac{8}{8}$.



The whole – the amount
eaten by Cici and woody =
The amount eaten by
Rustie.

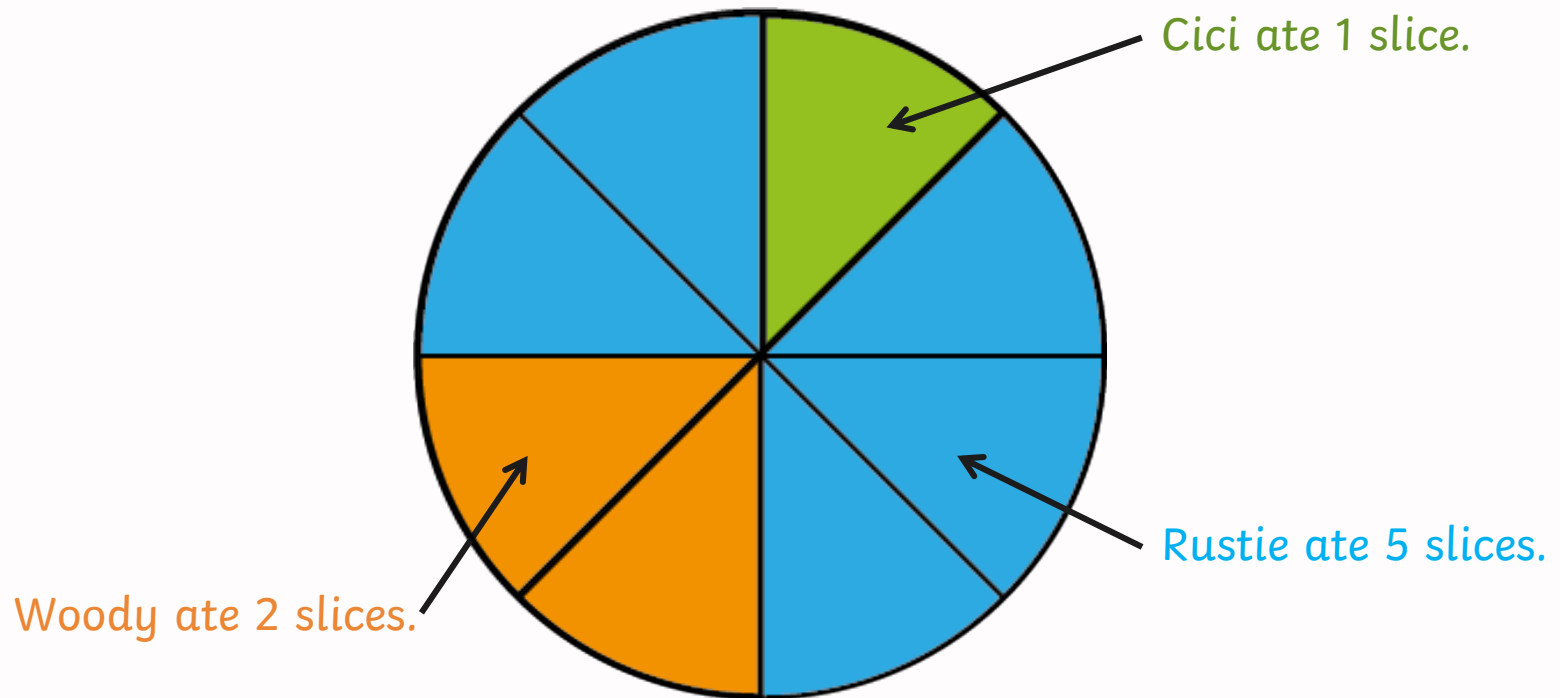
$$\frac{8}{8} - \frac{3}{8} = \frac{5}{8}.$$

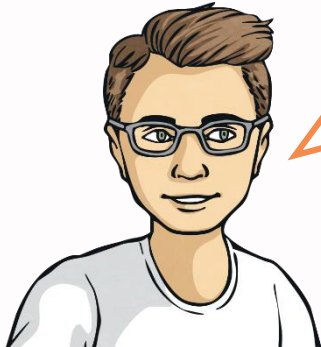
Woody ate $\frac{5}{8}$ of the pizza.

Woody ate 5 slices.



Cici ate $\frac{1}{8}$ of a pizza, Woody ate $\frac{1}{4}$ and Rustie ate the rest. How much pizza did each person eat? Draw and label your answer.

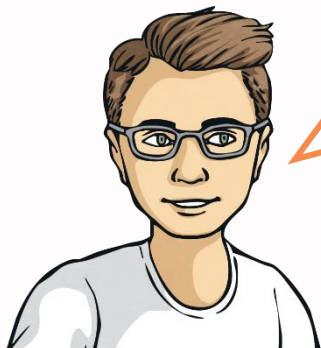




I add three non-unit fractions with the same denominator together to make a whole.

What three fractions could Simon be thinking of?
Explain your answer using reasoning.

A non-unit fraction = a fraction with a numerator (top number) greater than 1.



I add three non-unit fractions with the same denominator together to make a whole.

What three fractions could Simon be thinking of?
Explain your answer using reasoning.

You may have found many possible answers.

$$\text{For example: } \frac{2}{9} + \frac{3}{9} + \frac{4}{9} = \frac{9}{9}$$

