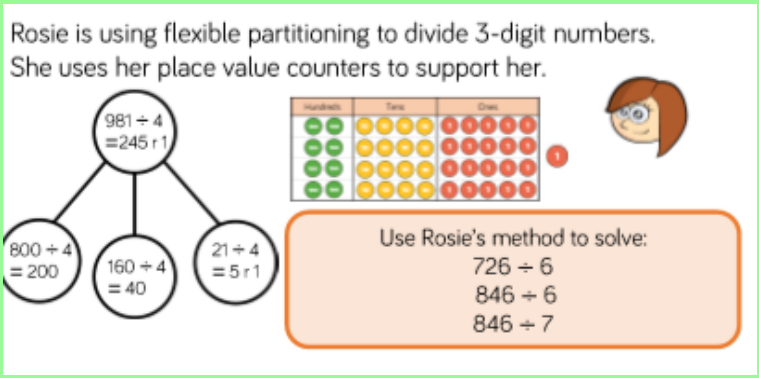
Give me 5!

1. 499 + 211 = ☐
2. 561 - 322 = ☐
3. 45 ÷ 5 = ☐
4. 120 ÷ 10 = ☐
5. 46 x 4 = ☐

Extension:



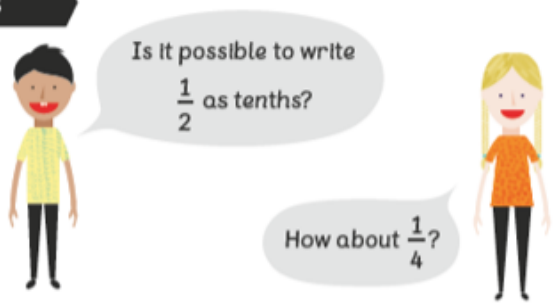
What does the term 'equivalent' mean again?

Can you write down all the equivalent fractions that you know.

Finding Equivalent Fractions

Lesson 5

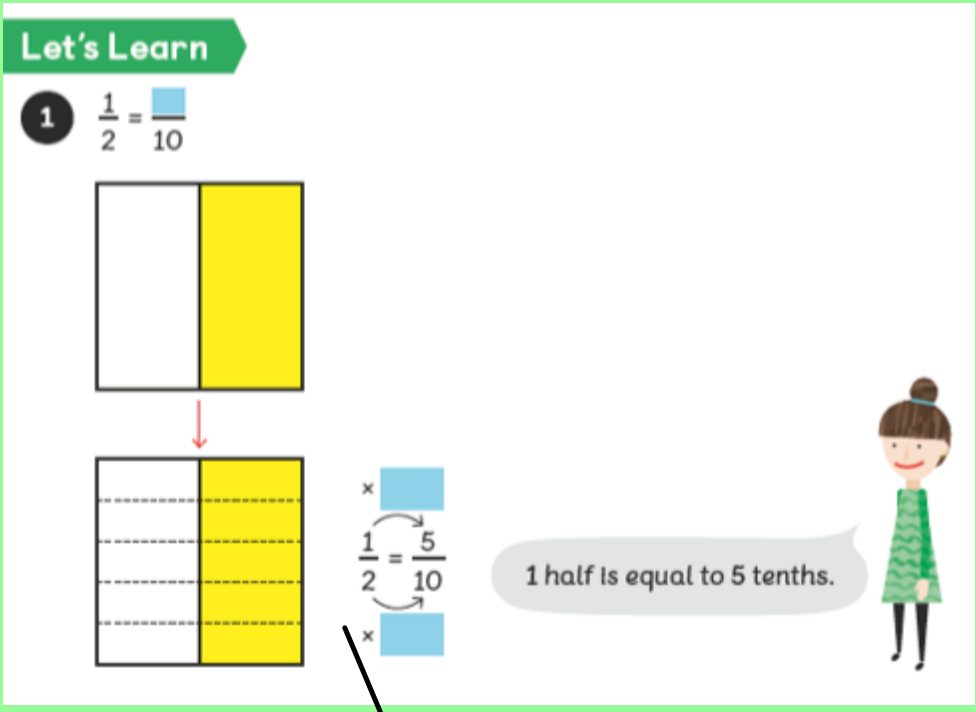
In Focus



Can we use our 2 times table or 10 times table to help us?

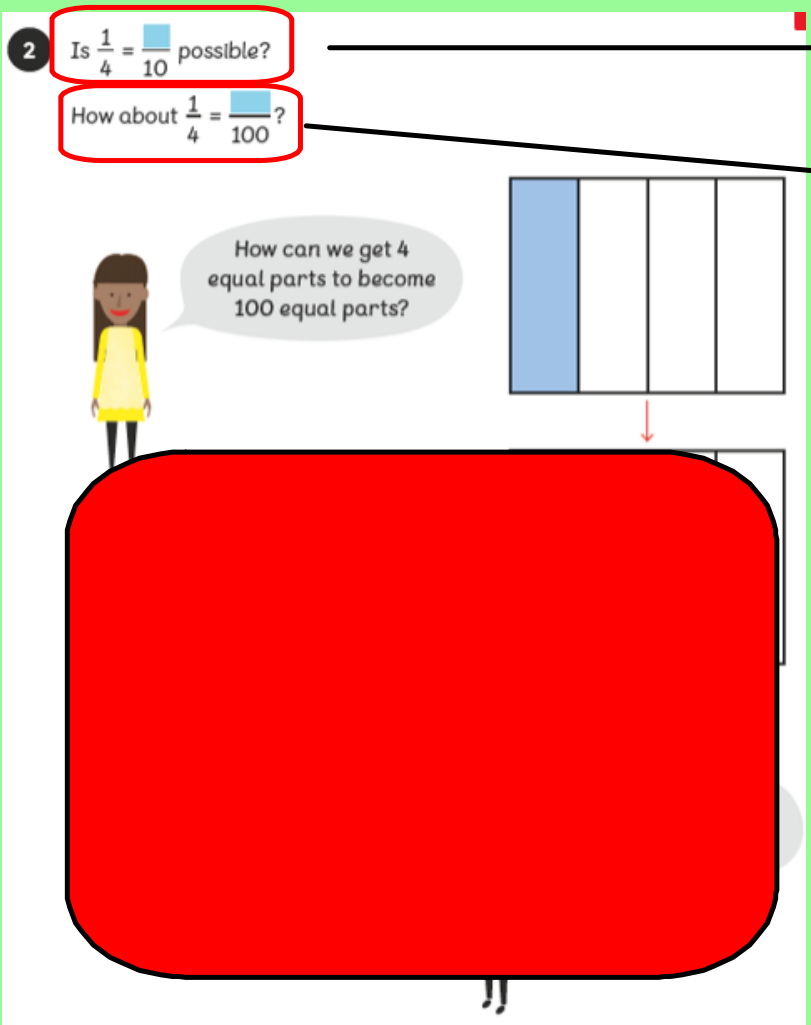
What has happened to change the denominator (2 to 10)?

What if we did the same to the numerator?



What has the numerator multiplied by?

What has the denominator multiplied by?

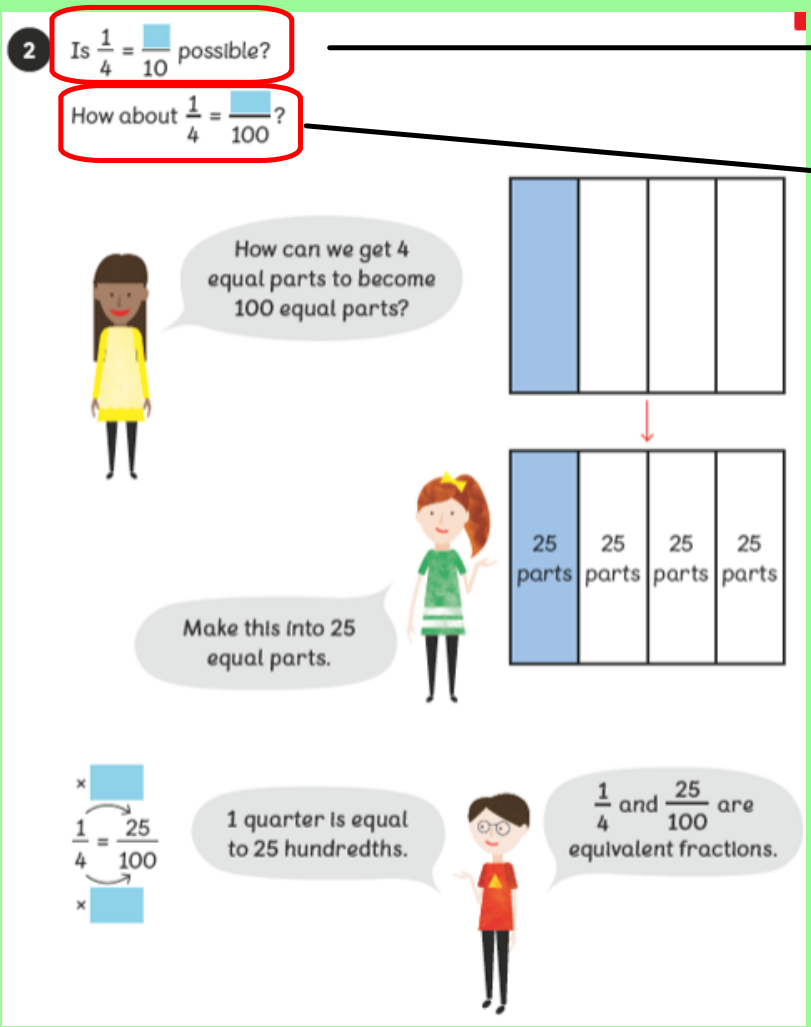


Is this possible?
Why or why not?
Can you check using your fraction wall.

What can we do to the denominator to make it 100?

Can we also do this with the numerator?

What fraction do we end up with?



Is this possible?
Why or why not?
Can you check using your fraction wall.

What can we do to the denominator to make it 100?

Can we also do this with the numerator?

What fraction do we end up with?

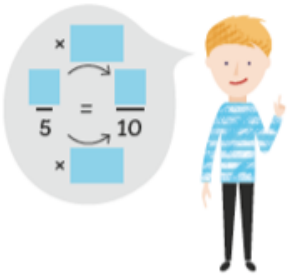
Guided Practice

1

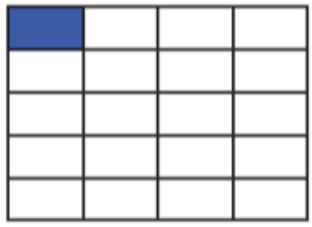
$\frac{1}{5} = \frac{\square}{10}$

$\frac{2}{5} = \frac{\square}{10}$

$\frac{4}{5} = \frac{\square}{10}$



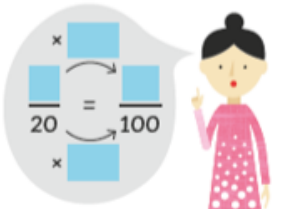
2

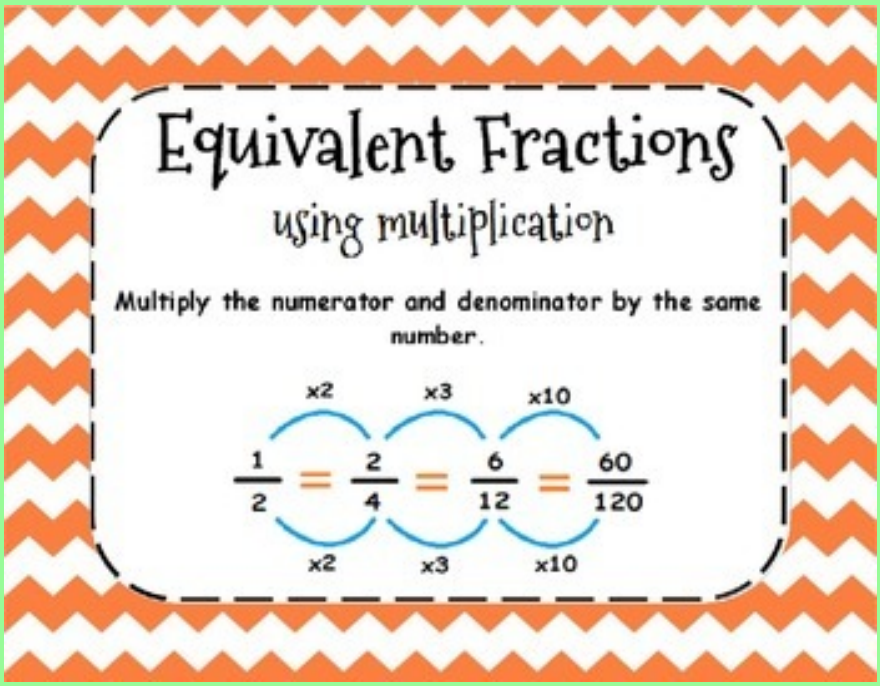


$\frac{1}{20} = \frac{\square}{100}$

$\frac{3}{20} = \frac{\square}{100}$

$\frac{19}{20} = \frac{\square}{100}$




Equivalent Fractions
using multiplication
Multiply the numerator and denominator by the same number.
x2
x3
x10
1/2 = 2/4 = 6/12 = 60/120
x2
x3
x10

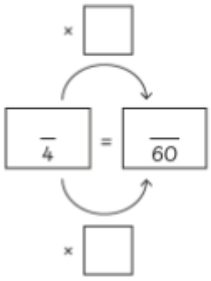
Finding Equivalent Fractions

1 Fill in the blanks.

(a) $\frac{1}{4} = \frac{\square}{60}$

$\frac{2}{4} = \frac{\square}{60}$

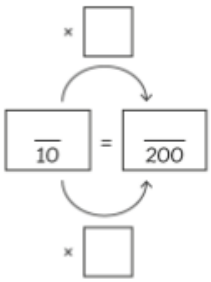
$\frac{3}{4} = \frac{\square}{60}$



(b) $\frac{1}{10} = \frac{\square}{200}$

$\frac{2}{10} = \frac{\square}{200}$

$\frac{3}{10} = \frac{\square}{200}$



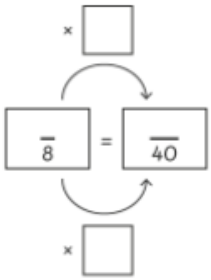
2 Fill in the blanks.

(a) $\frac{1}{8} = \frac{\square}{40}$

$\frac{3}{8} = \frac{\square}{40}$

$\frac{5}{8} = \frac{\square}{40}$

$\frac{7}{8} = \frac{\square}{40}$

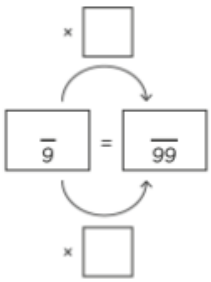


(b) $\frac{1}{9} = \frac{\square}{99}$

$\frac{4}{9} = \frac{\square}{99}$

$\frac{7}{9} = \frac{\square}{99}$

$\frac{8}{9} = \frac{\square}{99}$



Answers

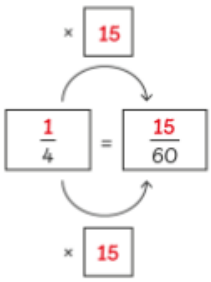
Finding Equivalent Fractions

1 Fill in the blanks.

(a) $\frac{1}{4} = \frac{15}{60}$

$\frac{2}{4} = \frac{30}{60}$

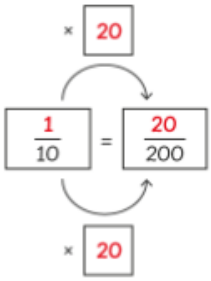
$\frac{3}{4} = \frac{45}{60}$



(b) $\frac{1}{10} = \frac{20}{200}$

$\frac{2}{10} = \frac{40}{200}$

$\frac{3}{10} = \frac{60}{200}$



Answers

2 Fill in the blanks.

(a) $\frac{1}{8} = \frac{5}{40}$

$\frac{3}{8} = \frac{15}{40}$

$\frac{5}{8} = \frac{25}{40}$

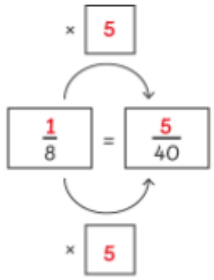
$\frac{7}{8} = \frac{35}{40}$

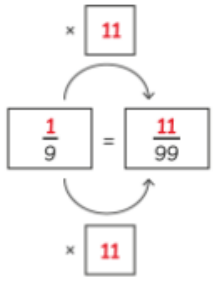
(b) $\frac{1}{9} = \frac{11}{99}$

$\frac{4}{9} = \frac{44}{99}$

$\frac{7}{9} = \frac{77}{99}$

$\frac{8}{9} = \frac{88}{99}$





Using the diagram, complete the equivalent fractions.

$\frac{1}{4} = \frac{\square}{12}$ $\frac{1}{\square} = \frac{6}{12}$ $\frac{2}{3} = \frac{\square}{12}$ $\frac{5}{12} = \frac{\square}{24}$

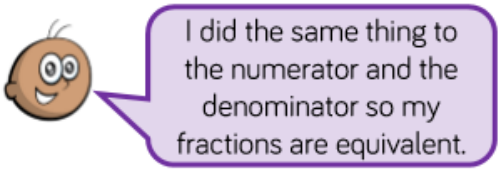
Complete:

$\frac{1}{4} = \frac{2}{\square} = \frac{\square}{12} = \frac{4}{\square} = \frac{\square}{100} = \frac{\square}{500}$

Tommy is finding equivalent fractions.

$\frac{3}{4} = \frac{5}{6} = \frac{7}{8} = \frac{9}{10}$

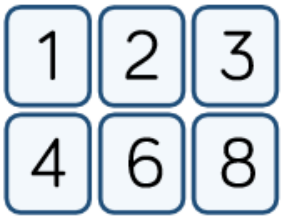
He says,

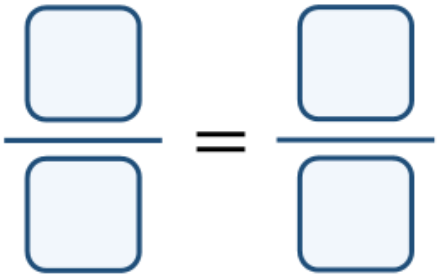


Do you agree with Tommy?
Explain your answer.

Challenge

Use the digit cards to complete the equivalent fractions.





How many different ways can you find?

Using the diagram, complete the equivalent fractions.

$\frac{1}{4} = \frac{3}{12}$ $\frac{1}{2} = \frac{6}{12}$ $\frac{2}{3} = \frac{8}{12}$ $\frac{5}{12} = \frac{10}{24}$

Complete:

$\frac{1}{4} = \frac{2}{8} = \frac{3}{12} = \frac{4}{16} = \frac{25}{100} = \frac{125}{500}$

Tommy is finding equivalent fractions.

$\frac{3}{4} = \frac{5}{6} = \frac{7}{8} = \frac{9}{10}$

He says,

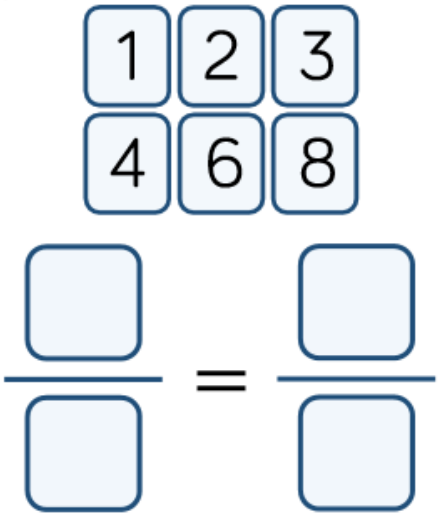
I did the same thing to the numerator and the denominator so my fractions are equivalent.

Do you agree with Tommy?
Explain your answer.

Tommy is wrong. He has added two to the numerator and denominator each time. When you find equivalent fractions you either need to multiply or divide the numerator and denominator by the same number.

Challenge Answers

Use the digit cards to complete the equivalent fractions.



How many different ways can you find?

Possible answers:

$\frac{1}{2} = \frac{3}{6}$, $\frac{1}{2} = \frac{4}{8}$,

$\frac{1}{3} = \frac{2}{6}$, $\frac{1}{4} = \frac{2}{8}$,

$\frac{3}{4} = \frac{6}{8}$, $\frac{2}{3} = \frac{4}{6}$