

Use the clues to work out which fraction is being described for each shape.

- My denominator is 6 and my numerator is half of my denominator.
- I am equivalent to $\frac{4}{12}$
- I am equivalent to one whole
- I am equivalent to $\frac{2}{3}$

Can you write what fraction each shape is worth? Can you record an equivalent fraction for each one?



How many equivalent fractions can you see in this picture?



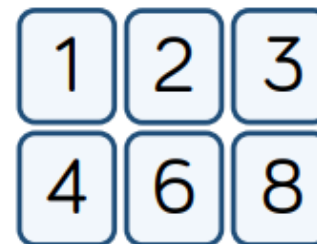
Eva says,



I know that $\frac{3}{4}$ is equivalent to $\frac{3}{8}$ because the numerators are the same.

Is Eva correct?
Explain why.

Use the digit cards to complete the equivalent fractions.

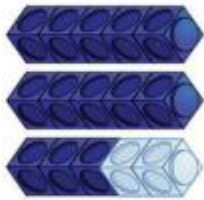


$$\frac{\square}{\square} = \frac{\square}{\square}$$

How many different ways can you find?

3 friends share some pizzas.
 Each pizza is cut into 8 equal slices.
 Altogether, they eat 25 slices.
 How many whole pizzas do they eat?

Spot the mistake.



$$\frac{13}{5} = 10 \text{ wholes and } 3 \text{ fifths}$$

Here is a number sequence.

$$\frac{5}{12}, \frac{7}{12}, \frac{10}{12}, \frac{14}{12}, \frac{19}{12}, \text{---}$$

Which fraction would come next?
 Can you write the fraction in more than one way?

Circle and correct the mistakes in the sequences.

$$\frac{5}{12}, \frac{8}{12}, \frac{11}{12}, \frac{15}{12}, \frac{17}{12}$$

$$\frac{9}{10}, \frac{7}{10}, \frac{6}{10}, \frac{3}{10}, \frac{1}{10}$$

Tommy is finding equivalent fractions.

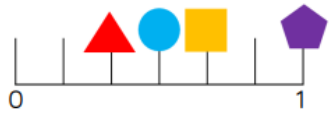
$$\frac{3}{4} = \frac{5}{6} = \frac{7}{8} = \frac{9}{10}$$

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.



Use the clues to work out which fraction is being described for each shape.

- My denominator is 6 and my numerator is half of my denominator.
- I am equivalent to $\frac{4}{12}$
- I am equivalent to one whole
- I am equivalent to $\frac{2}{3}$

Can you write what fraction each shape is worth? Can you record an equivalent fraction for each one?

$$\begin{array}{cc} \triangle = & \square = \\ \circ = & \pentagon = \end{array}$$

- Circle
- Triangle
- Square
- Pentagon

$$\triangle = \frac{1}{3} \text{ or } \frac{2}{6}$$

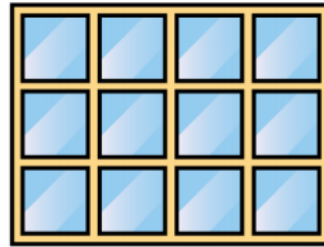
$$\circ = \frac{1}{2} \text{ or } \frac{3}{6}$$

$$\square = \frac{2}{3} \text{ or } \frac{4}{6}$$

$$\pentagon = \frac{5}{6} \text{ or } \frac{5}{6}$$

Accept other correct equivalences

How many equivalent fractions can you see in this picture?



Eva says,



I know that $\frac{3}{4}$ is equivalent to $\frac{3}{8}$ because the numerators are the same.

Is Eva correct? Explain why.

Children can give a variety of possibilities. Examples:

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

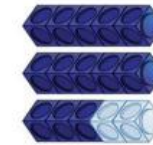
$$\frac{1}{4} = \frac{3}{12}$$

Eva is not correct. $\frac{3}{4}$ is equivalent to $\frac{6}{8}$. When the numerators are the same, the larger the denominator, the smaller the fraction.

3 friends share some pizzas. Each pizza is cut into 8 equal slices. Altogether, they eat 25 slices. How many whole pizzas do they eat?

They eat 3 whole pizzas and 1 more slice.

Spot the mistake.



$$\frac{13}{5} = 10 \text{ wholes and 3 fifths}$$

There are 2 wholes not 10
 $\frac{10}{5} = 2$ wholes

$\frac{13}{5} = 2$ wholes and 3 fifths

Tommy is finding equivalent fractions.

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

He says,

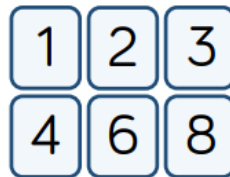


I did the same thing to the numerator and the denominator so my fractions are equivalent.

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.

Use the digit cards to complete the equivalent fractions.



$$\frac{\square}{\square} = \frac{\square}{\square}$$

How many different ways can you find?

Possible answers:

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

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

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

Here is a number sequence.

$$\frac{5}{12}, \frac{7}{12}, \frac{10}{12}, \frac{14}{12}, \frac{19}{12}, \text{---}$$

Which fraction would come next? Can you write the fraction in more than one way?

Circle and correct the mistakes in the sequences.

$$\frac{5}{12}, \frac{8}{12}, \frac{11}{12}, \frac{15}{12}, \frac{17}{12}$$

$$\frac{9}{10}, \frac{7}{10}, \frac{6}{10}, \frac{3}{10}, \frac{1}{10}$$

The fractions are increasing by one more twelfth each time. The next fraction would be $\frac{25}{12}$

$$\frac{5}{12}, \frac{8}{12}, \frac{11}{12}, \frac{14}{12}, \frac{17}{12}$$

$$\frac{9}{10}, \frac{7}{10}, \frac{5}{10}, \frac{3}{10}, \frac{1}{10}$$