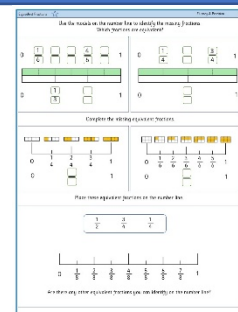


★ Equivalent Fractions

Encourage children to focus on how the number line can be divided into different amounts of equal parts and how this helps to find equivalent fractions, e.g. a number line divided into twelfths can also represent halves, thirds, quarters and sixths.

On this sheet, they will complete missing equivalent fractions and place a limited amount of given equivalent fractions on a simple number line.

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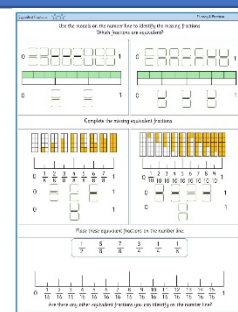


★★ Equivalent Fractions

Encourage children to focus on how the number line can be divided into different amounts of equal parts and how this helps to find equivalent fractions e.g. a number line divided into twelfths can also represent halves, thirds, quarters and sixths.

On this sheet, they will complete missing equivalent fractions and place given equivalent fractions on a partially empty number line.

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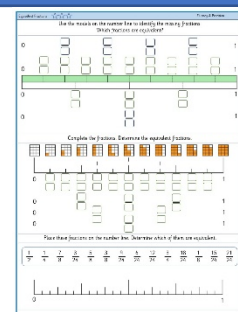


★★★ Equivalent Fractions

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On this sheet, they will complete missing equivalent fractions and place given equivalent fractions on a completely empty number line.

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Reasoning & Problem Solving

Equivalent Fractions

Children continue working on their understanding of equivalent fractions by answering reasoning tasks.

Reasoning & Problem Solving

Zach and Tia are using number lines to explore equivalent fractions.

Zach says,

$$\frac{2}{8} = \frac{1}{4}$$

Tia says,

$$\frac{2}{8} = \frac{1}{2}$$

Who do you agree with? Explain why.

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

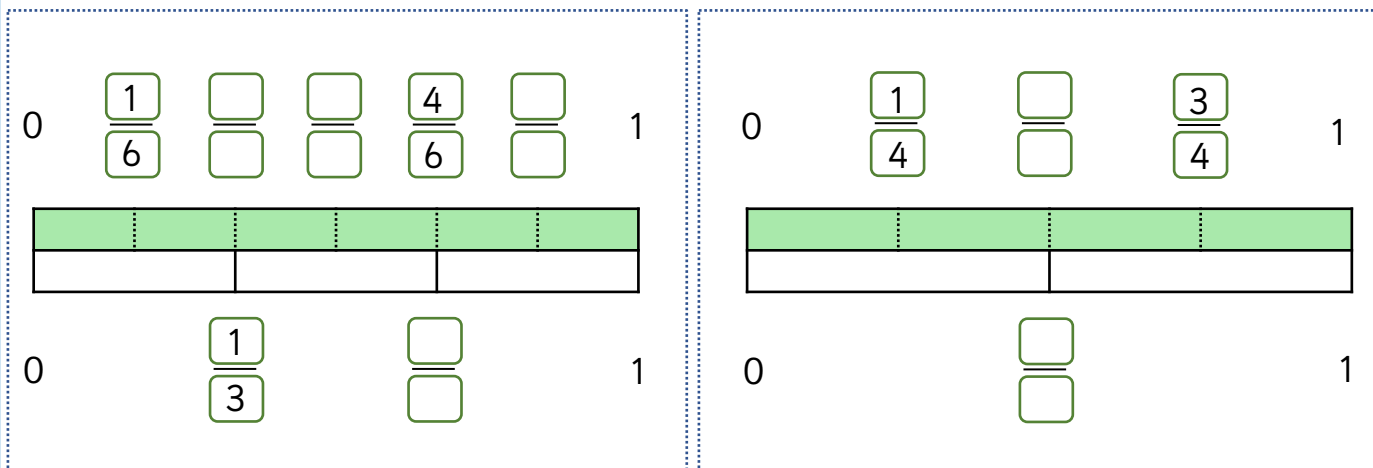
My denominator is 8 and my numerator is half of my denominator.
 I am equivalent to $\frac{1}{2}$.
 I am equivalent to $\frac{4}{8}$.
 I am equivalent to $\frac{6}{8}$.

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

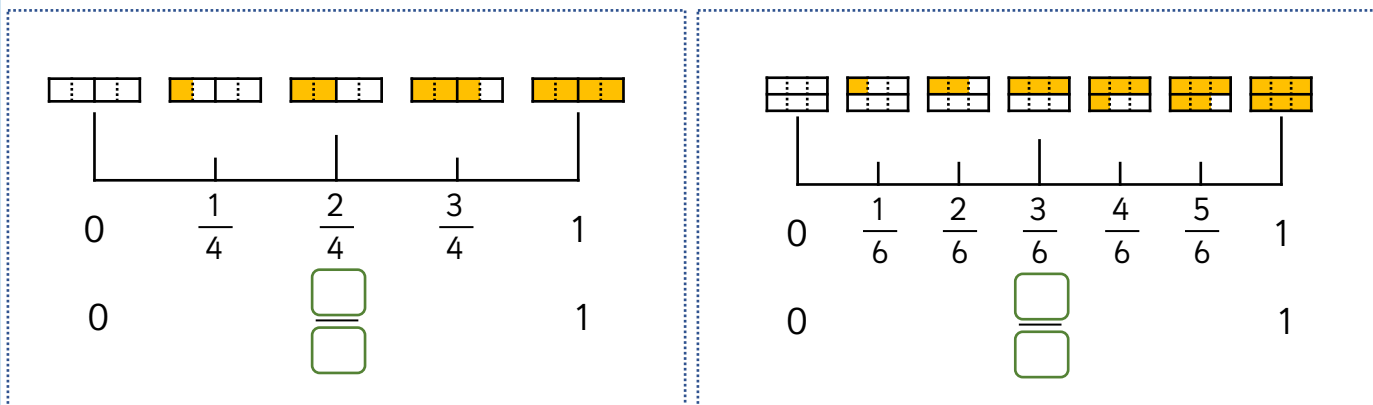
$\frac{1}{2}$ = $\frac{4}{8}$
 $\frac{1}{4}$ = $\frac{2}{8}$
 $\frac{1}{8}$ = $\frac{1}{8}$



Use the models on the number line to identify the missing fractions.
Which fractions are equivalent?



Complete the missing equivalent fractions.



Place these equivalent fractions on the number line.

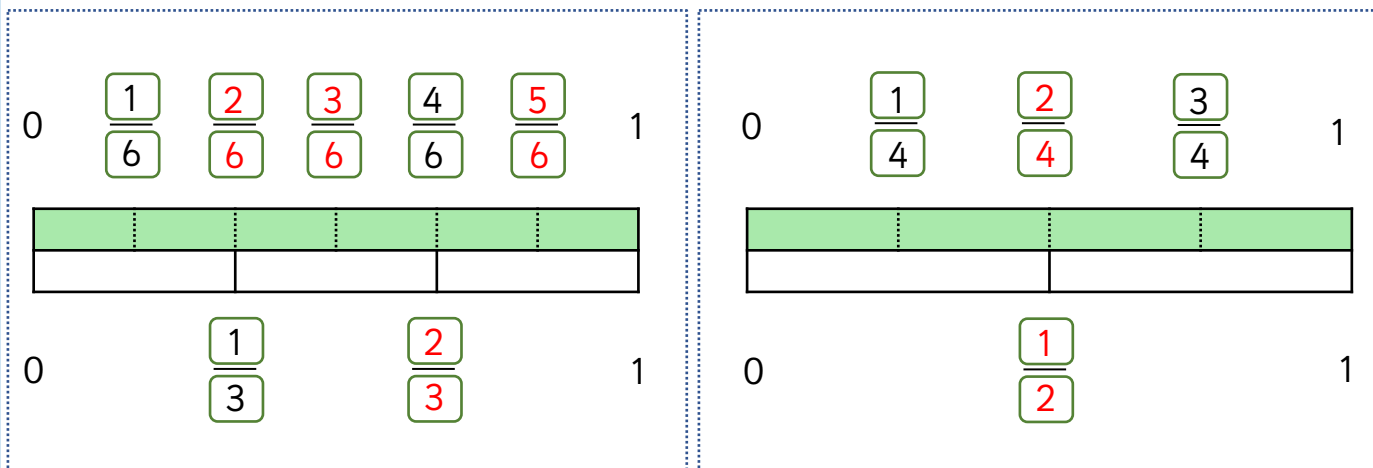
$\frac{1}{2}$
 $\frac{3}{4}$
 $\frac{1}{4}$



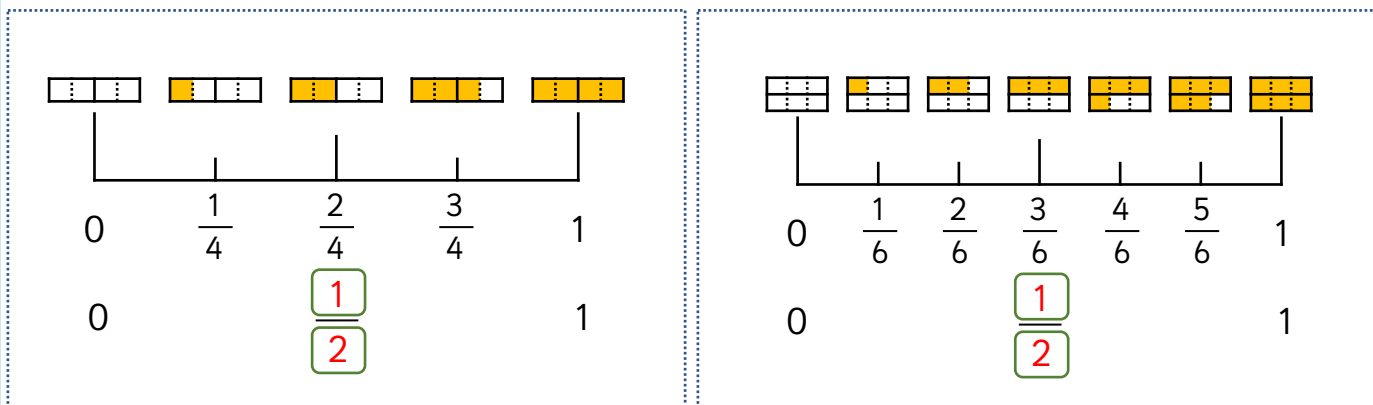
Are there any other equivalent fractions you can identify on the number line?



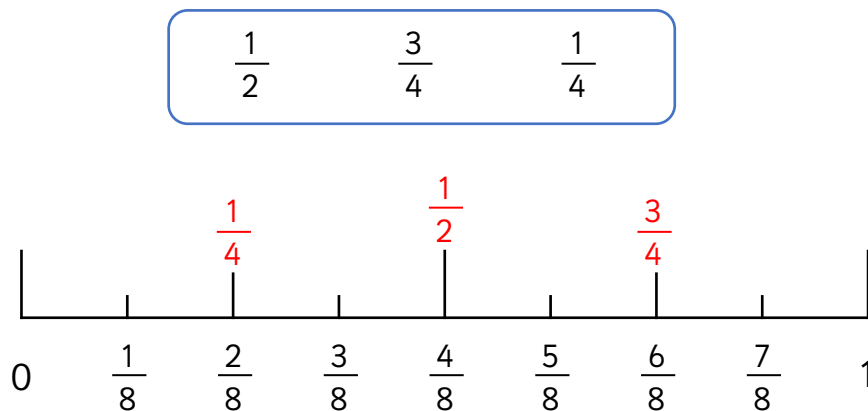
Use the models on the number line to identify the missing fractions.
Which fractions are equivalent?



Complete the missing equivalent fractions.



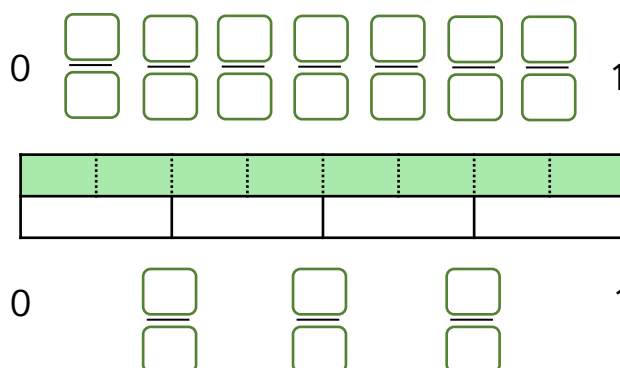
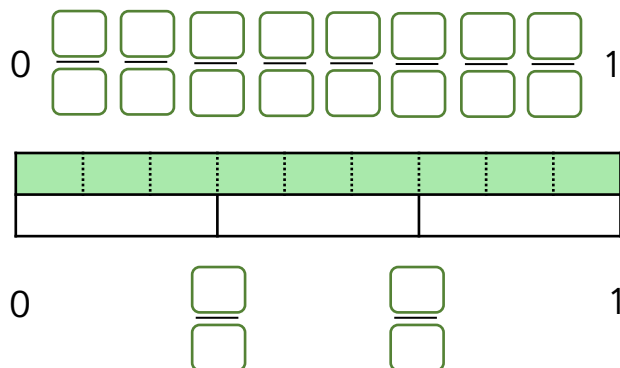
Place these equivalent fractions on the number line.



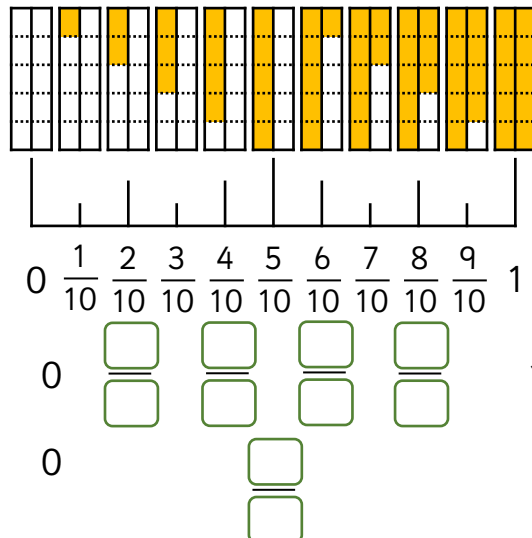
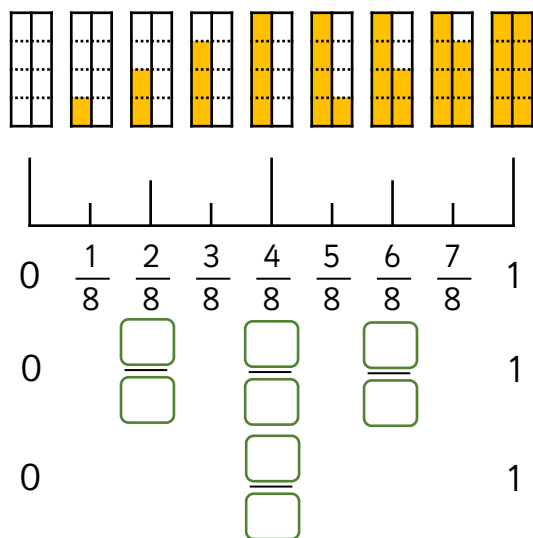
Are there any other equivalent fractions you can identify on the number line?



Use the models on the number line to identify the missing fractions.
Which fractions are equivalent?

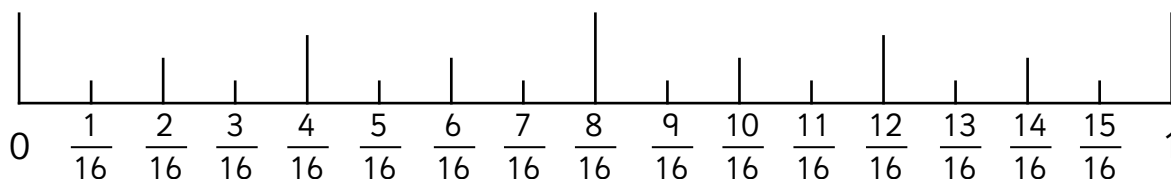


Complete the missing equivalent fractions.



Place these equivalent fractions on the number line.

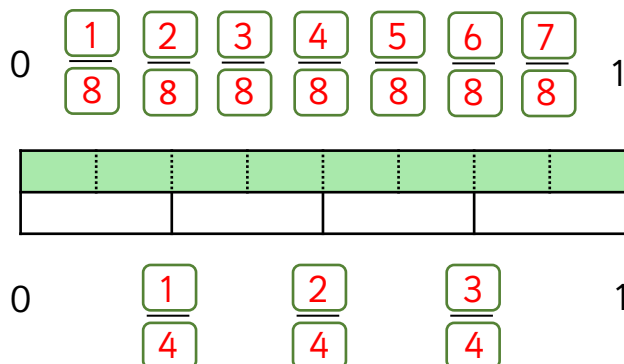
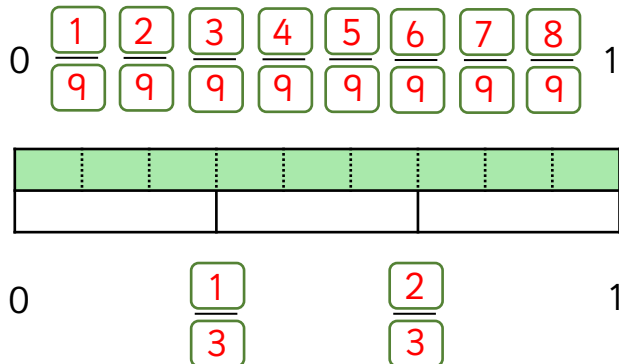
$$\frac{1}{2} \quad \frac{5}{8} \quad \frac{7}{8} \quad \frac{3}{4} \quad \frac{1}{4} \quad \frac{1}{8}$$



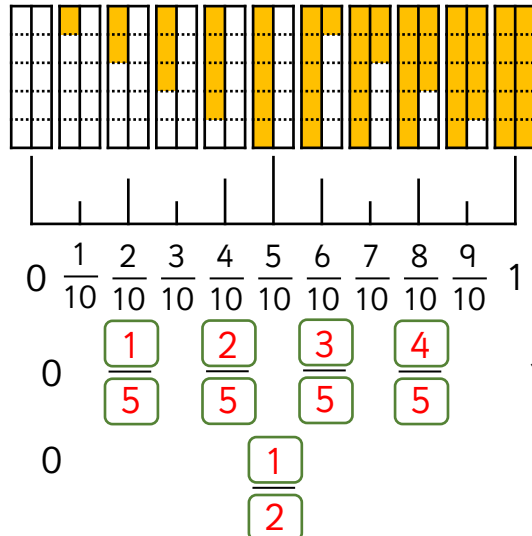
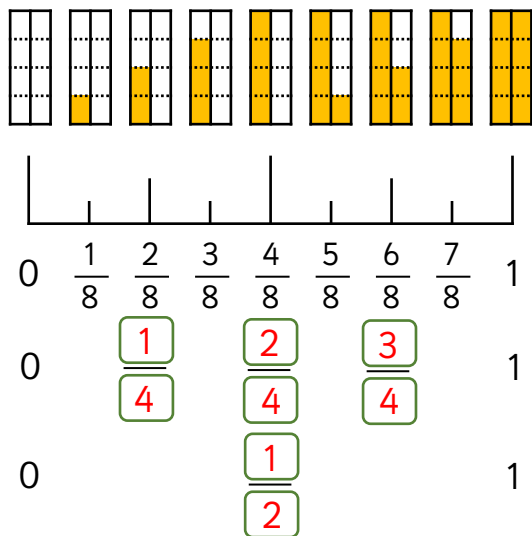
Are there any other equivalent fractions you can identify on the number line?



Use the models on the number line to identify the missing fractions.
Which fractions are equivalent?

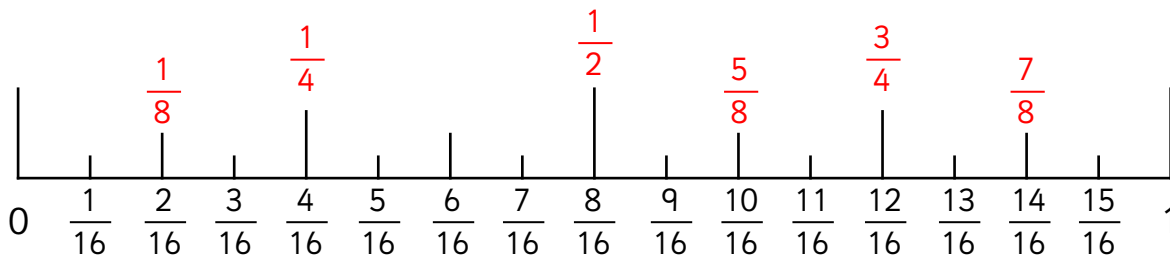


Complete the missing equivalent fractions.



Place these equivalent fractions on the number line.

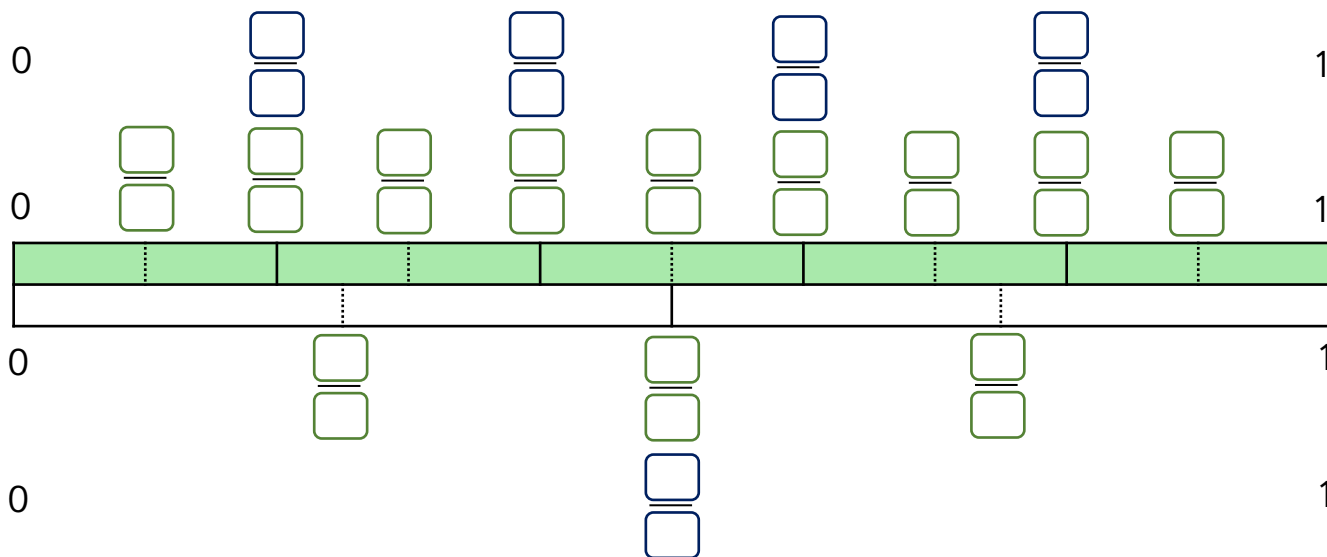
$$\frac{1}{2} \quad \frac{5}{8} \quad \frac{7}{8} \quad \frac{3}{4} \quad \frac{1}{4} \quad \frac{1}{8}$$



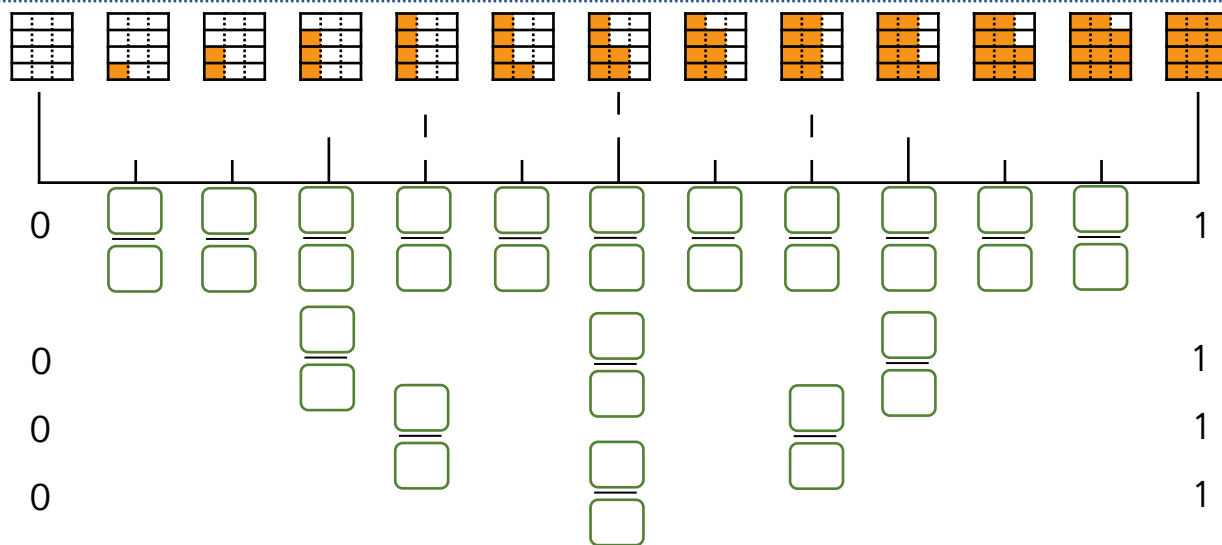
Are there any other equivalent fractions you can identify on the number line?



Use the models on the number line to identify the missing fractions.
Which fractions are equivalent?



Complete the fractions. Determine the equivalent fractions.



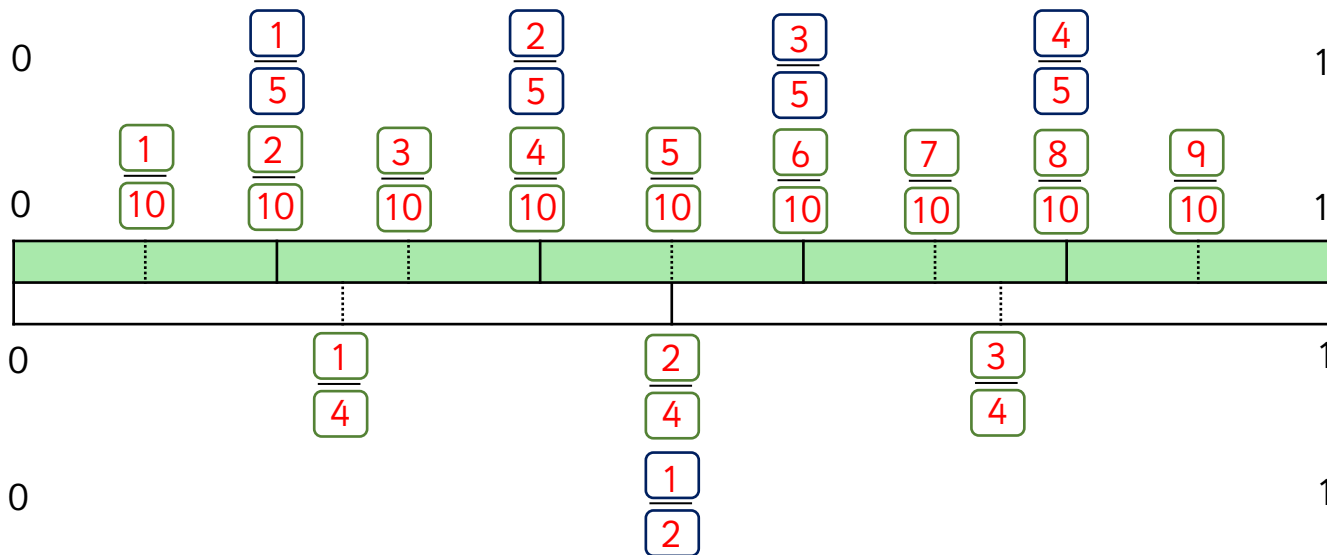
Place these fractions on the number line. Determine which of them are equivalent.

$\frac{1}{2}$ $\frac{1}{4}$ $\frac{7}{8}$ $\frac{3}{24}$ $\frac{5}{8}$ $\frac{3}{8}$ $\frac{9}{24}$ $\frac{6}{24}$ $\frac{12}{24}$ $\frac{3}{4}$ $\frac{18}{24}$ $\frac{1}{8}$ $\frac{15}{24}$ $\frac{21}{24}$

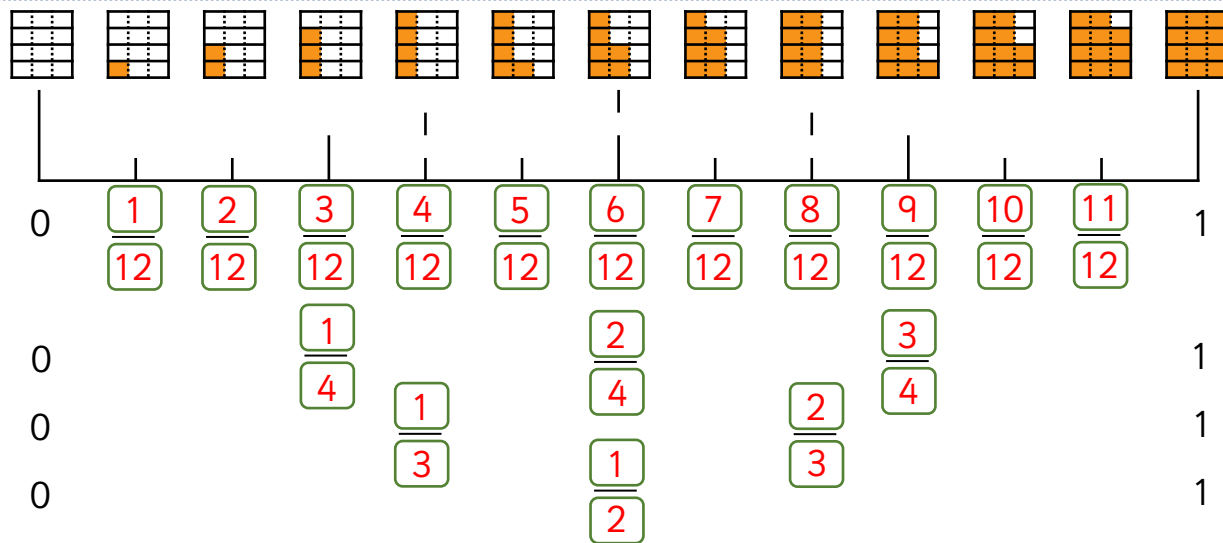




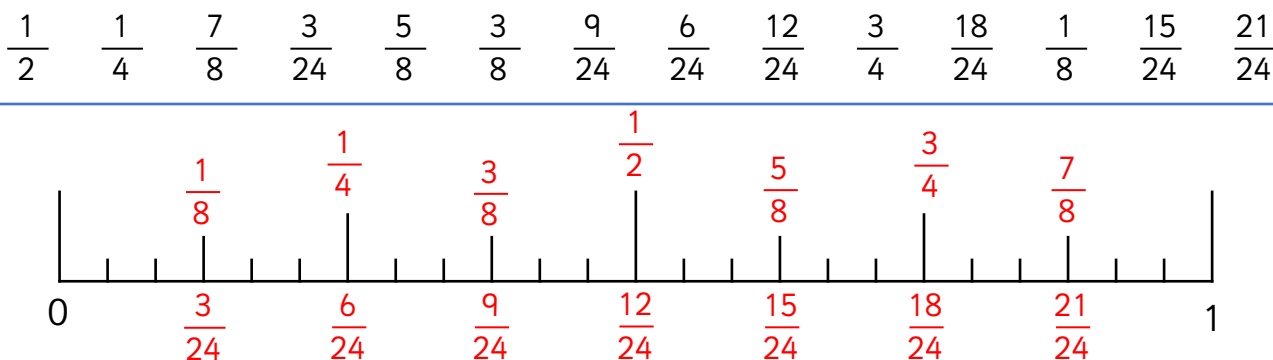
Use the models on the number line to identify the missing fractions.
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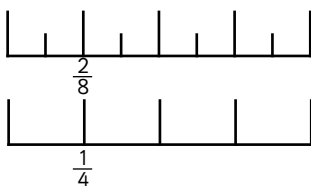


Zach and Tia are using number lines to explore equivalent fractions.

Zach says,



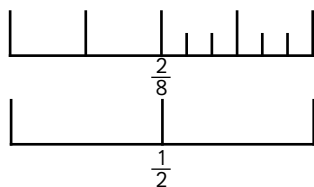
$$\frac{2}{8} = \frac{1}{4}$$



Tia says,

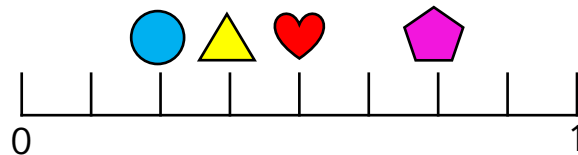


$$\frac{2}{8} = \frac{1}{2}$$



Who do you agree with? Explain why.

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



- My denominator is 8 and my numerator is half of my denominator.
- I am equivalent to $\frac{1}{4}$.
- I am equivalent to $\frac{9}{24}$.
- I am equivalent to $\frac{12}{16}$.

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



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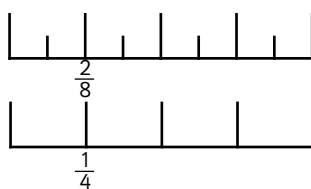
=

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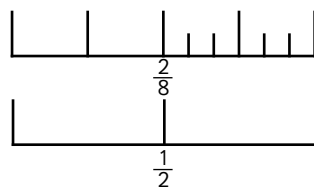
$$\frac{2}{8} = \frac{1}{4}$$



Tia says,

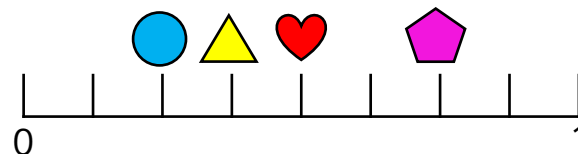


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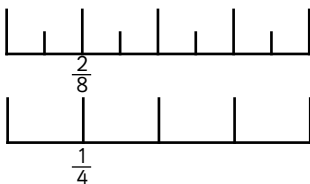
=

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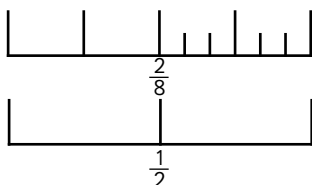
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Tia says,



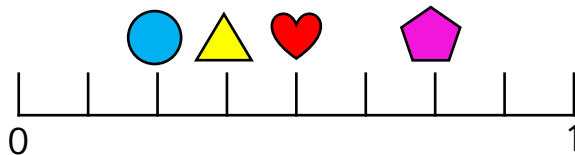
$$\frac{2}{8} = \frac{1}{2}$$



Who do you agree with? Explain why.

Zach is correct. Tia's top number line isn't split into equal parts, which means she cannot find the correct equivalent fraction.

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



- My denominator is 8 and my numerator is half of my denominator. $\frac{4}{8}$ or $\frac{1}{2}$
- I am equivalent to $\frac{1}{4}$. or $\frac{2}{8}$
- I am equivalent to $\frac{3}{24}$. or $\frac{1}{8}$
- I am equivalent to $\frac{12}{16}$. or $\frac{3}{4}$



Can you write what fraction each shape is worth?

Can you record an equivalent fraction for each one?

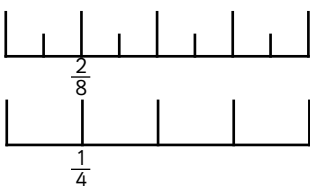
$$\begin{array}{lcl} \text{Blue Circle} & = & \frac{2}{8} \text{ or } \frac{1}{4} \\ \text{Yellow Triangle} & = & \frac{3}{8} \text{ or } \frac{6}{16} \\ \text{Red Heart} & = & \frac{4}{8} \text{ or } \frac{1}{2} \\ \text{Purple Pentagon} & = & \frac{6}{8} \text{ or } \frac{3}{4} \end{array}$$

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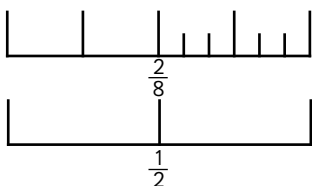
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Tia says,



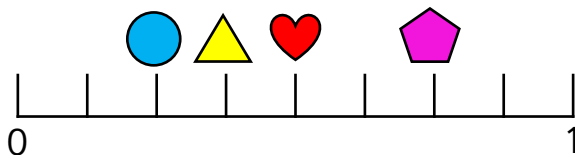
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Can you write what fraction each shape is worth?

Can you record an equivalent fraction for each one?

$$\begin{array}{lcl} \text{Blue Circle} & = & \frac{2}{8} \text{ or } \frac{1}{4} \\ \text{Yellow Triangle} & = & \frac{3}{8} \text{ or } \frac{6}{16} \\ \text{Red Heart} & = & \frac{4}{8} \text{ or } \frac{1}{2} \\ \text{Purple Pentagon} & = & \frac{6}{8} \text{ or } \frac{3}{4} \end{array}$$