

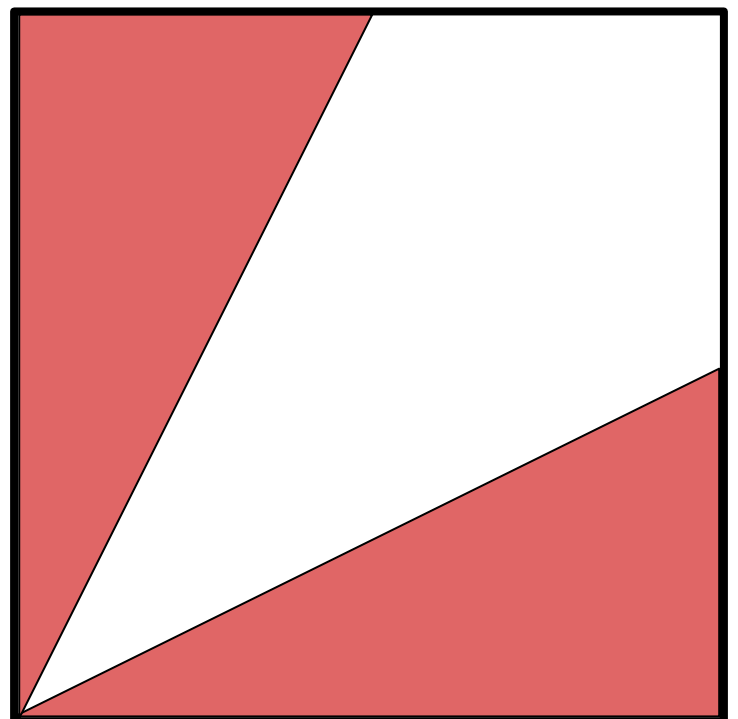
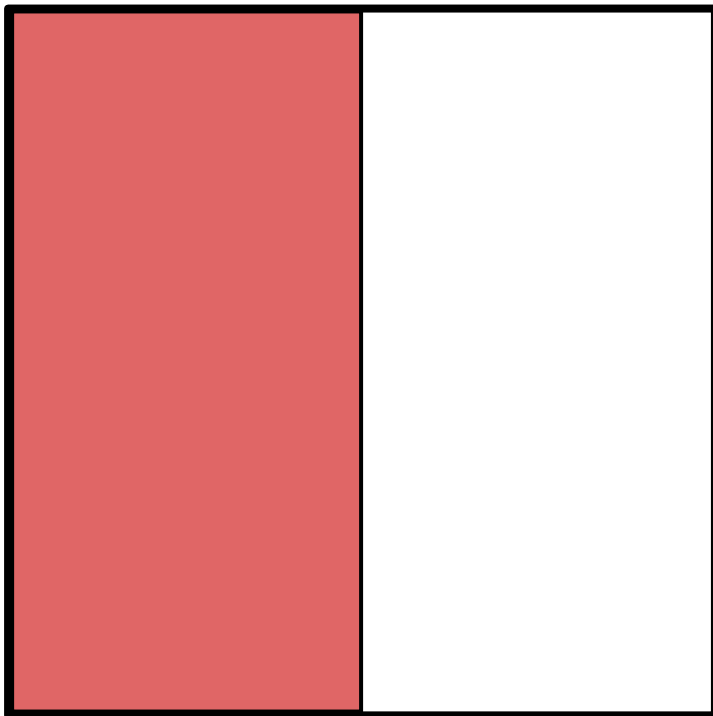
Equivalent Fractions

Cover equal areas with different size
unit fractions.



Is it fair?

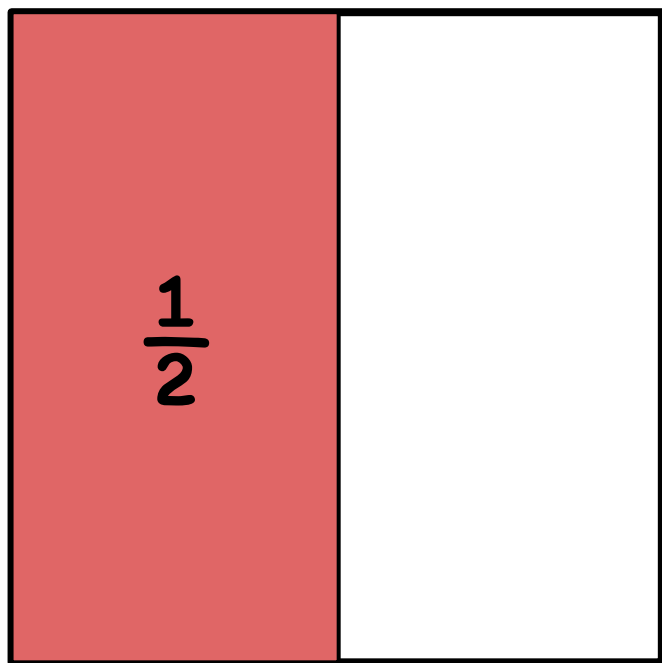
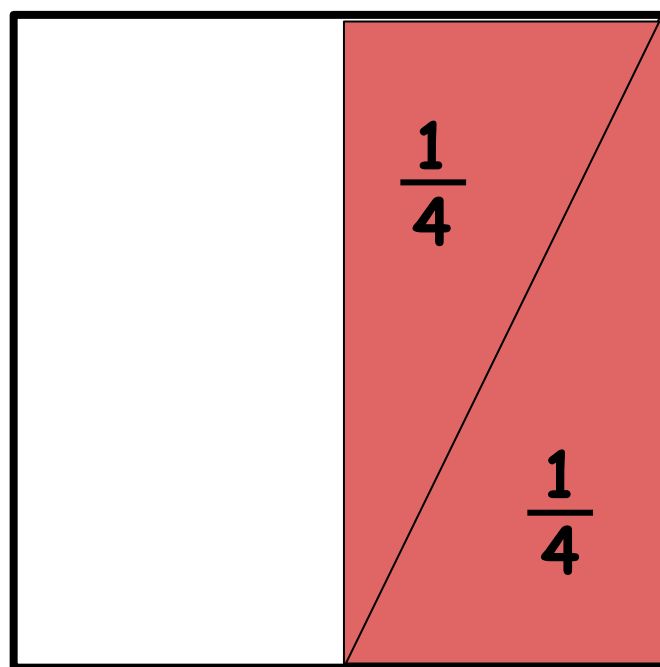
Do these squares show equal shaded areas?
Use the tool to justify your answer,
then discuss as a class.

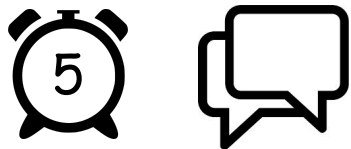




Summarize

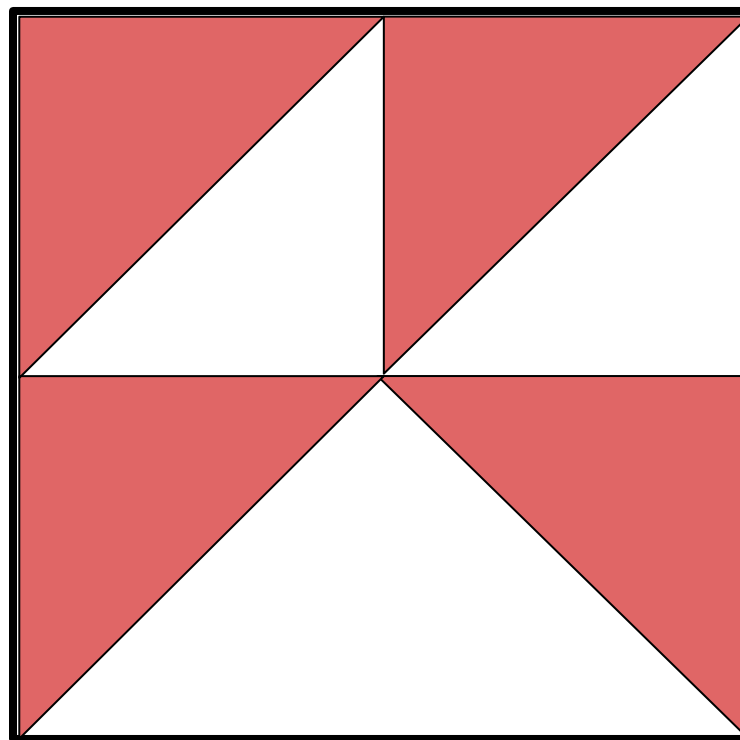
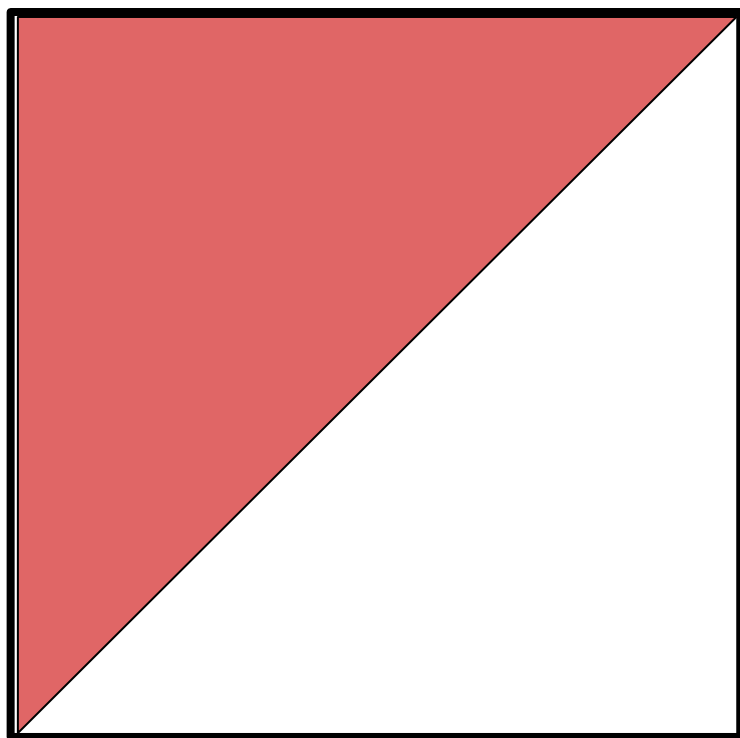
Both squares have the same amount of area covered. The fractions they represent are equivalent.


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

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



Share Strategies

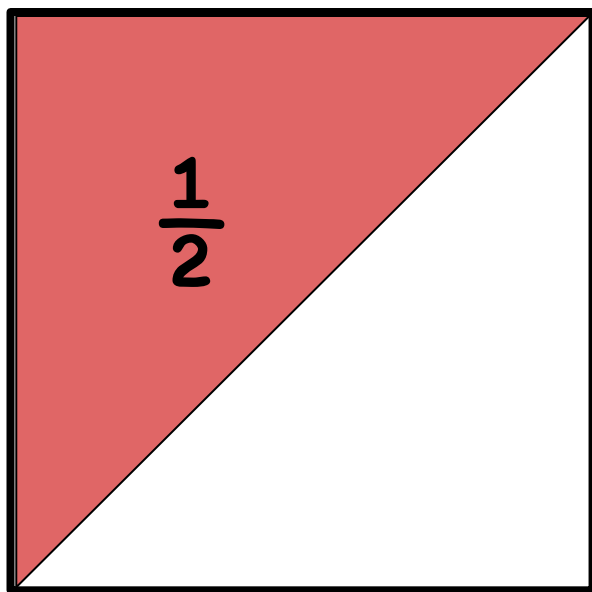
Let's use the tool to prove if these fractions are equivalent.



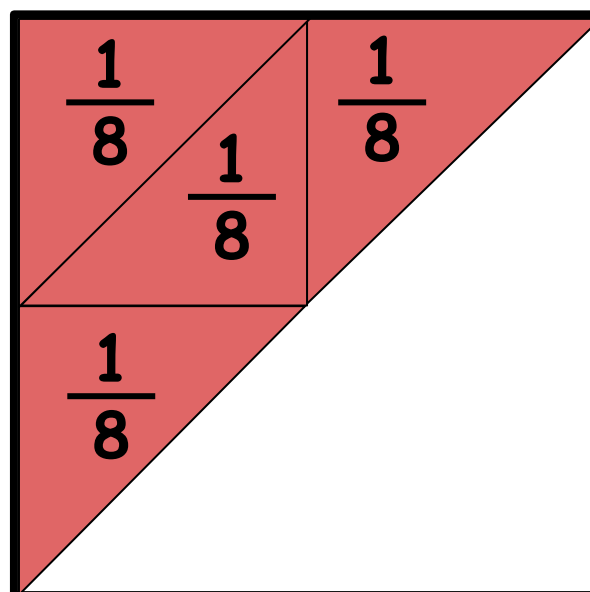


Summarize

Both squares have the same amount of area covered. The fractions they represent are equivalent.



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

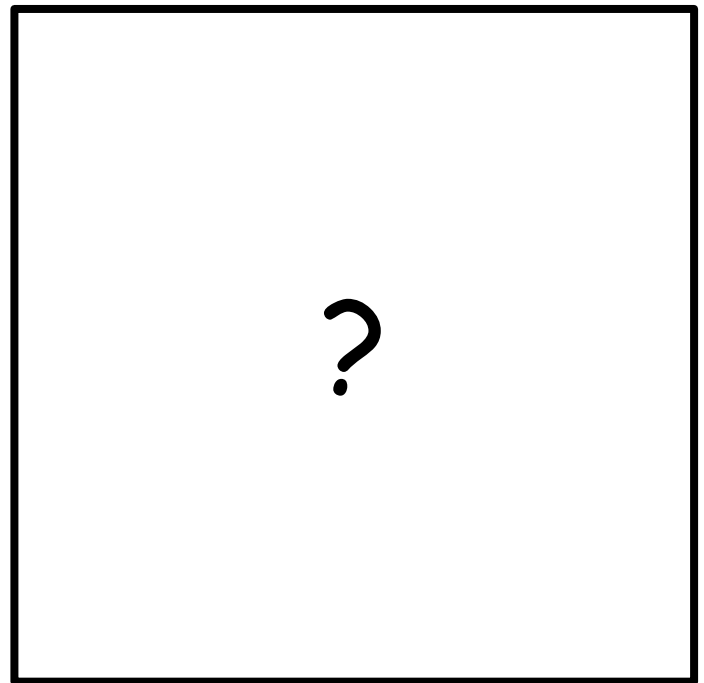
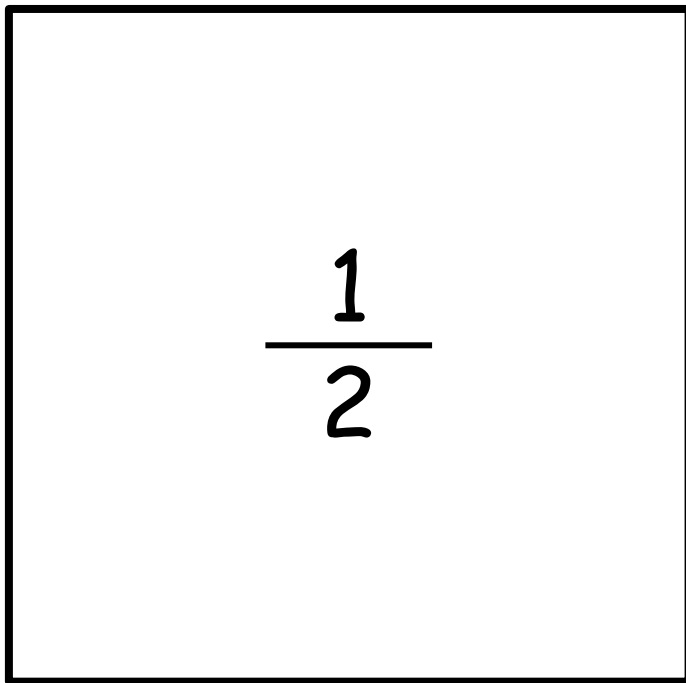


$$\begin{aligned} &= \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} \\ &= \frac{4}{8} \end{aligned}$$



Create Equivalent Pairs

Find more than one way to cover $\frac{1}{2}$ the square using different unit fractions.



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

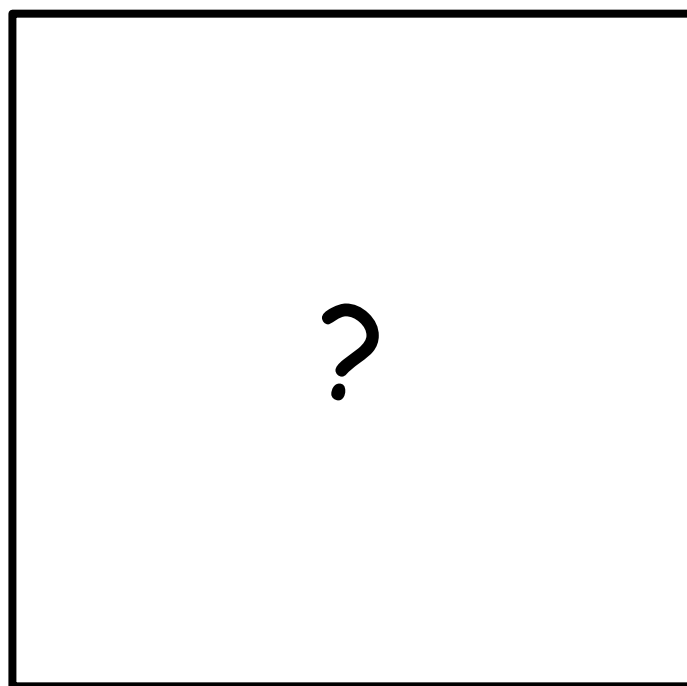
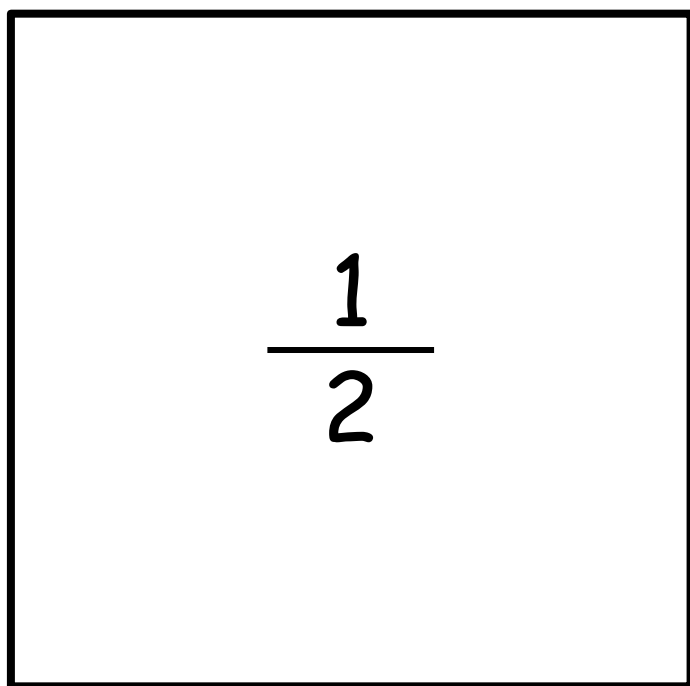
Record your work, label the unit fractions, and write an equation.



Share Equivalent Pairs

What other shapes did you find to cover
 $\frac{1}{2}$ the square?

Let's use the tool to find out!



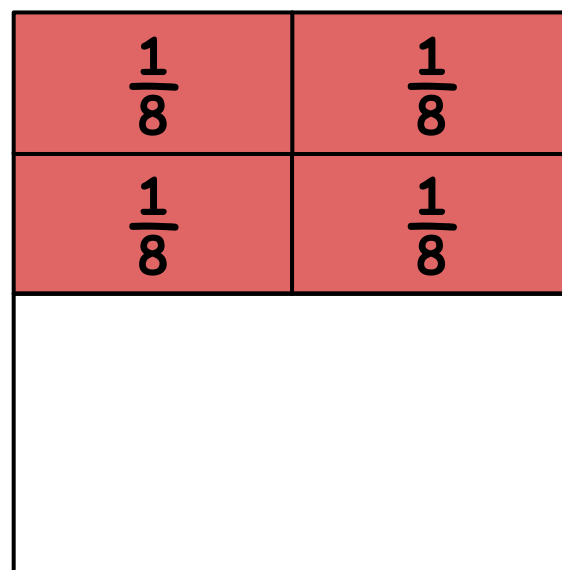
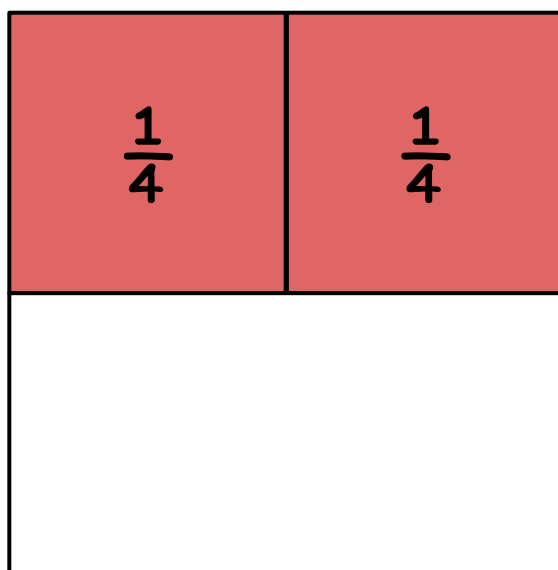
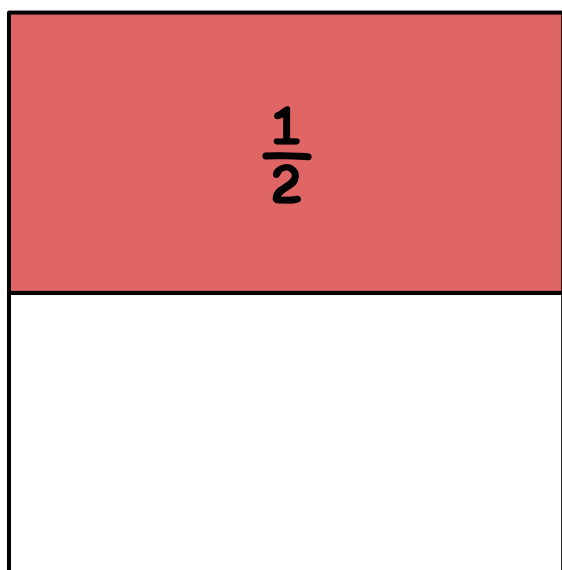
$$\frac{1}{2} = \frac{\square}{\square}$$



Summarize

(1 of 2)

The squares show equivalent fractions. Each square has the same area covered but with different units and number of pieces



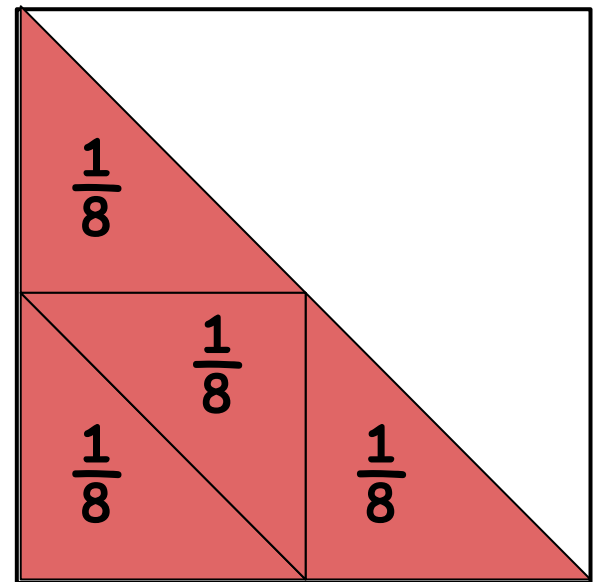
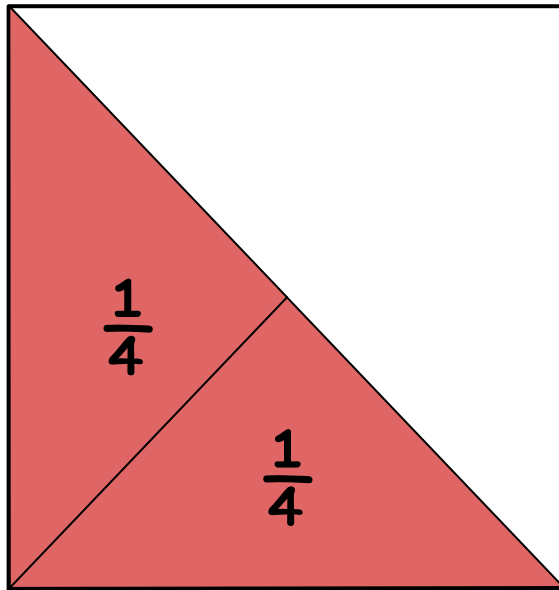
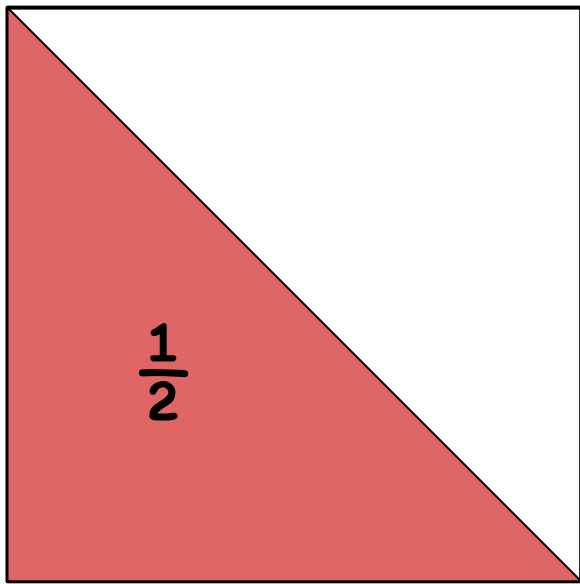
$$\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$$



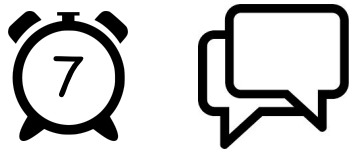
Summarize

(2 of 2)

Equivalent fractions are different ways of showing the same amount.

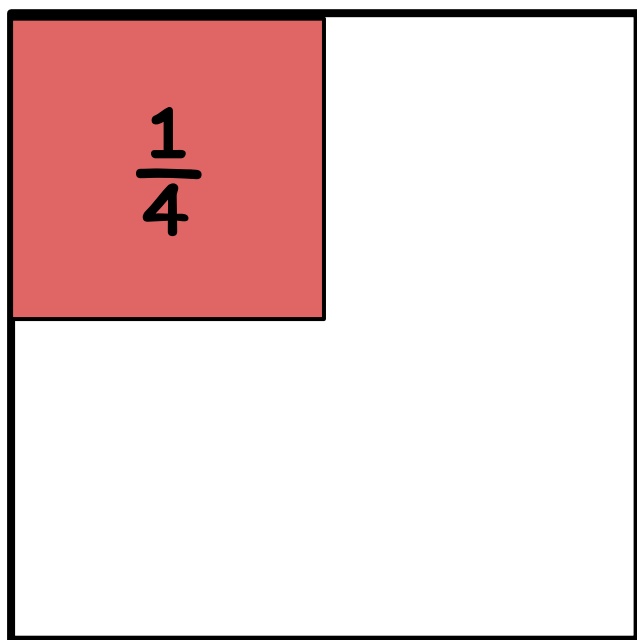


$$\frac{1}{2} = \frac{2}{4} = \frac{4}{8}$$

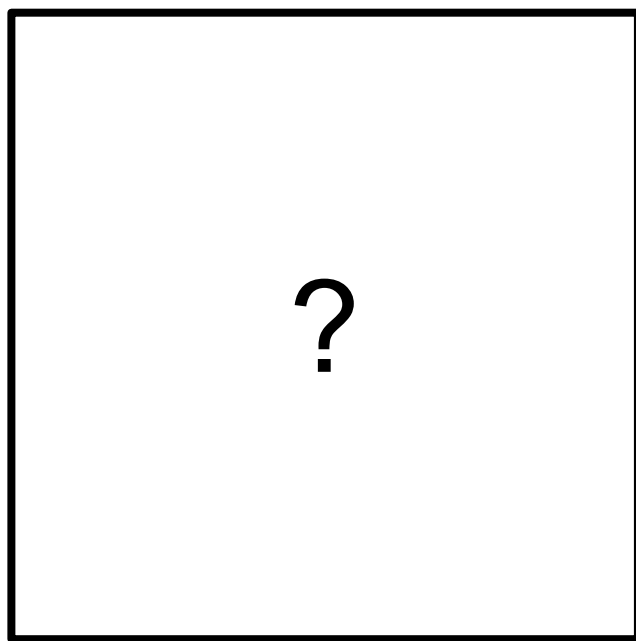


Conclusion

Find another way to fill the square without using fourths.

 $\frac{1}{4}$

=



?

Record your work and write an equation.