Same Amount, New Name!

Find equivalent fractions with pictures



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Think, pair, share

Two friends share same-size bars. One eats 1/2, one eats 2/4. Same?



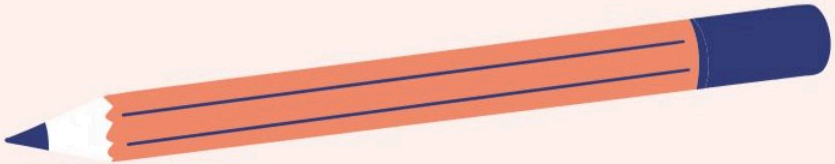
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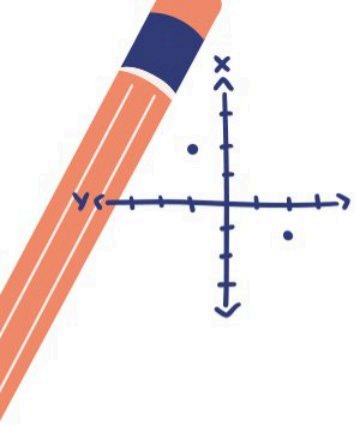
DID YOU KNOW?

1/2 has endless twins like 2/4, 3/6, 4/8!

Equivalent means same amount of same-size whole.

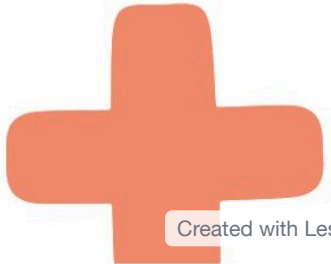


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How to Make an Equivalent

1. Start with same-size whole
2. Cut each part into equal mini-parts
3. Count all parts for bottom number
4. Count shaded parts for top number



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Watch: Halves in Disguise



▶ 0:00 – 5:00

- See how 1/2 and 2/4 match up
- Listen for same whole, same amount



Three Twin Pairs to Know





1/2 = 2/4

Half bar matches two quarters.



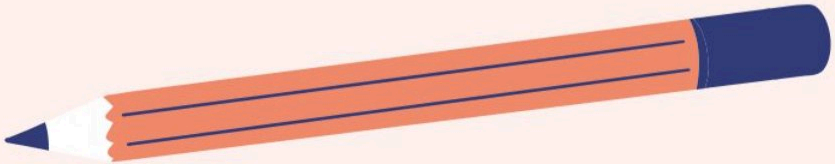
2/3 = 4/6

Two thirds matches four sixths.



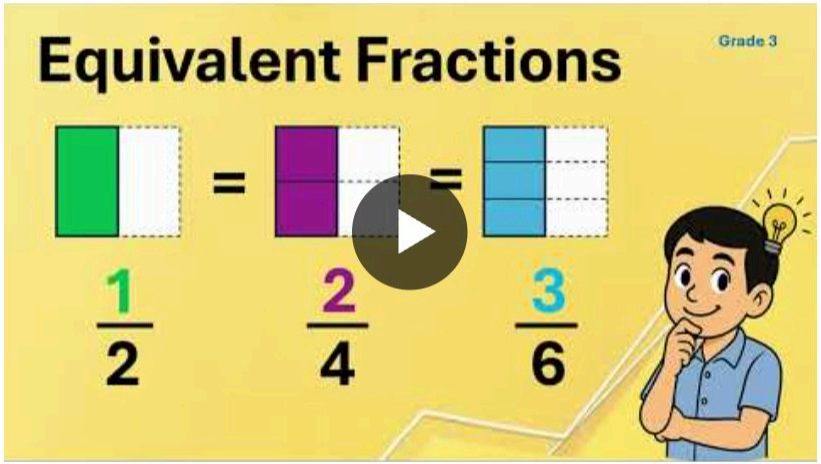
1/3 = 2/6

One third matches two sixths.



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Watch: Why They Match



▶ 0:00 – 5:00

- Watch cutting make smaller parts
- Listen why shaded amount stays same

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Your task

In pairs, fold and shade paper strips to build 1/2 = 2/4 and 2/3 = 4/6.

1. Fold one strip in halves, shade 1/2
2. Fold second strip in quarters, shade 2/4, compare
3. Repeat with thirds and sixths for 2/3 = 4/6

10 min

In pairs



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Prove It With a Picture



Bar Model

Same-size bars with same shaded length.



Circle Model

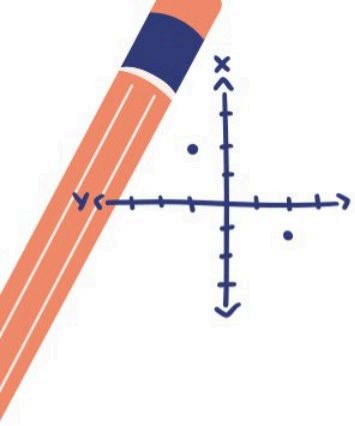
Same-size circles with same shaded area.



Number Line

Same 0 to 1 line, same dot.

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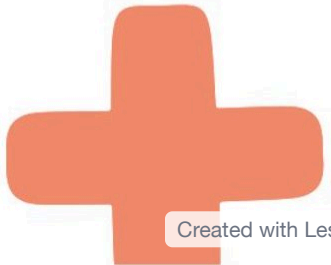


Which Helper Do You Like?

Which model best shows why fractions are equivalent?

A Bar strips	B Circles	C Number line

Vote with your hands, then explain why.



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True or false?

1/2 = 2/4 because they cover the same amount.

4/6 = 2/3 because they cover the same amount.

Equivalents must come from same-size wholes.

To make an equivalent, change only the top number.



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