Times a Fraction

Finding a part of a part



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DID YOU KNOW?

You need no common bottom to multiply!

Just multiply tops together and bottoms together to get the answer.

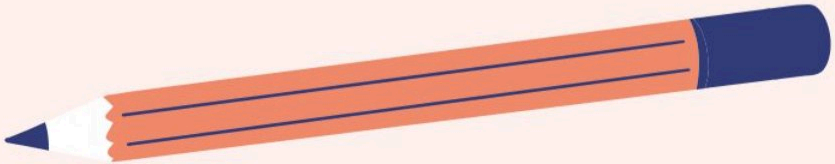


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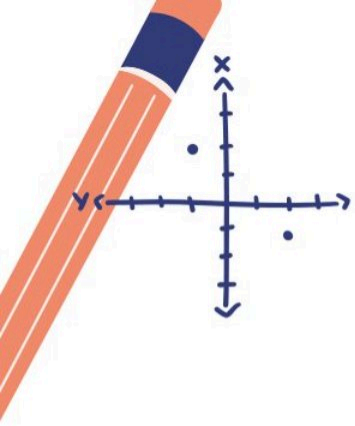


BIG IDEA

Multiplying a fraction means finding a fraction of something.



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Add or multiply?

Adding fractions

- Need same bottom first
- Add tops, keep bottom

Multiplying fractions

- No same bottom needed
- Multiply tops and bottoms

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How do you see it?

Which way makes sense for 3 x 2/3?



A 3 groups of 2/3

B 2/3 of 3 wholes

C Both ways make sense

Vote with your hands, then explain why.

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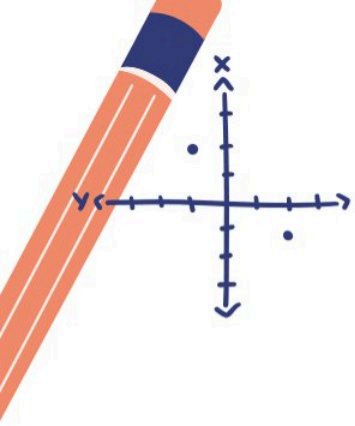
Watch: A fraction of a fraction



▶ 0:00 – 4:57

- Watch where the two shades overlap
- Listen for tops times tops

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Three kinds we can do

Whole x Fraction

3 x 2/3 means 3 groups of 2 thirds.

Fraction x Whole

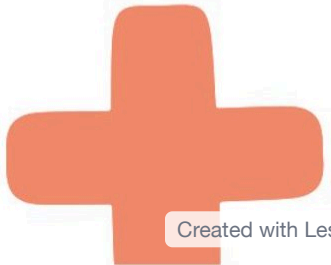
1/2 x 6 means half of 6, which is 3.

Fraction x Fraction

1/2 x 1/3 means half of one third.

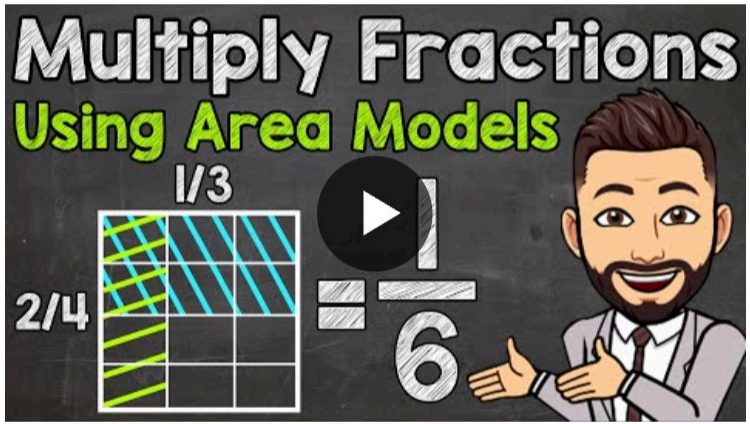
New words

Numerator is top number; denominator is bottom number.



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Watch: Paint the rectangle



▶ 0:00 – 5:00

- See how the square becomes small parts
- Spot why bottoms multiply

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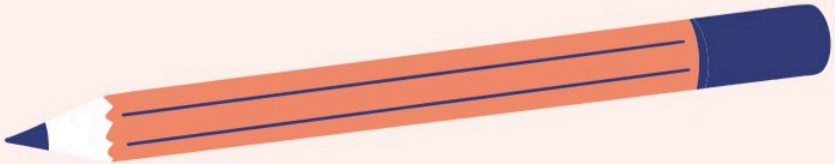
Your task

In pairs, model and solve two multiplications with drawings and numbers.

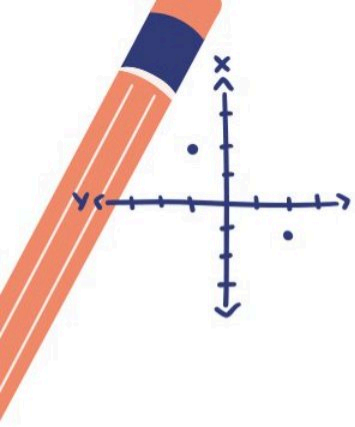
1. Draw a rectangle for 2/3 x 3/4 and shade overlap.
2. Draw bars or groups for 3 x 2/5.
3. Write tops x tops and bottoms x bottoms, simplify.

10 min

In pairs



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Finish strong: simplify

🔍

Multiply straight across

Tops times tops, bottoms times bottoms.

1

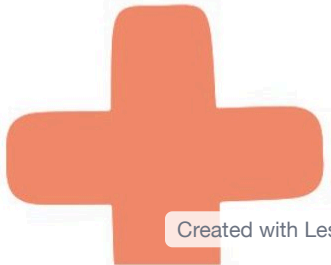
Whole numbers

Write a whole as over 1, like 5 = 5/1.

✂️

Simplify last

Divide top and bottom by same number if you can.



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Exit ticket

1. Solve 1/2 x 2/3. Show a quick sketch.

2. One thing I learned today...

3. One question I still have...



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