Which Fraction Wins?

Comparing fractions with different pieces

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Today we will…

WE ARE LEARNING TO

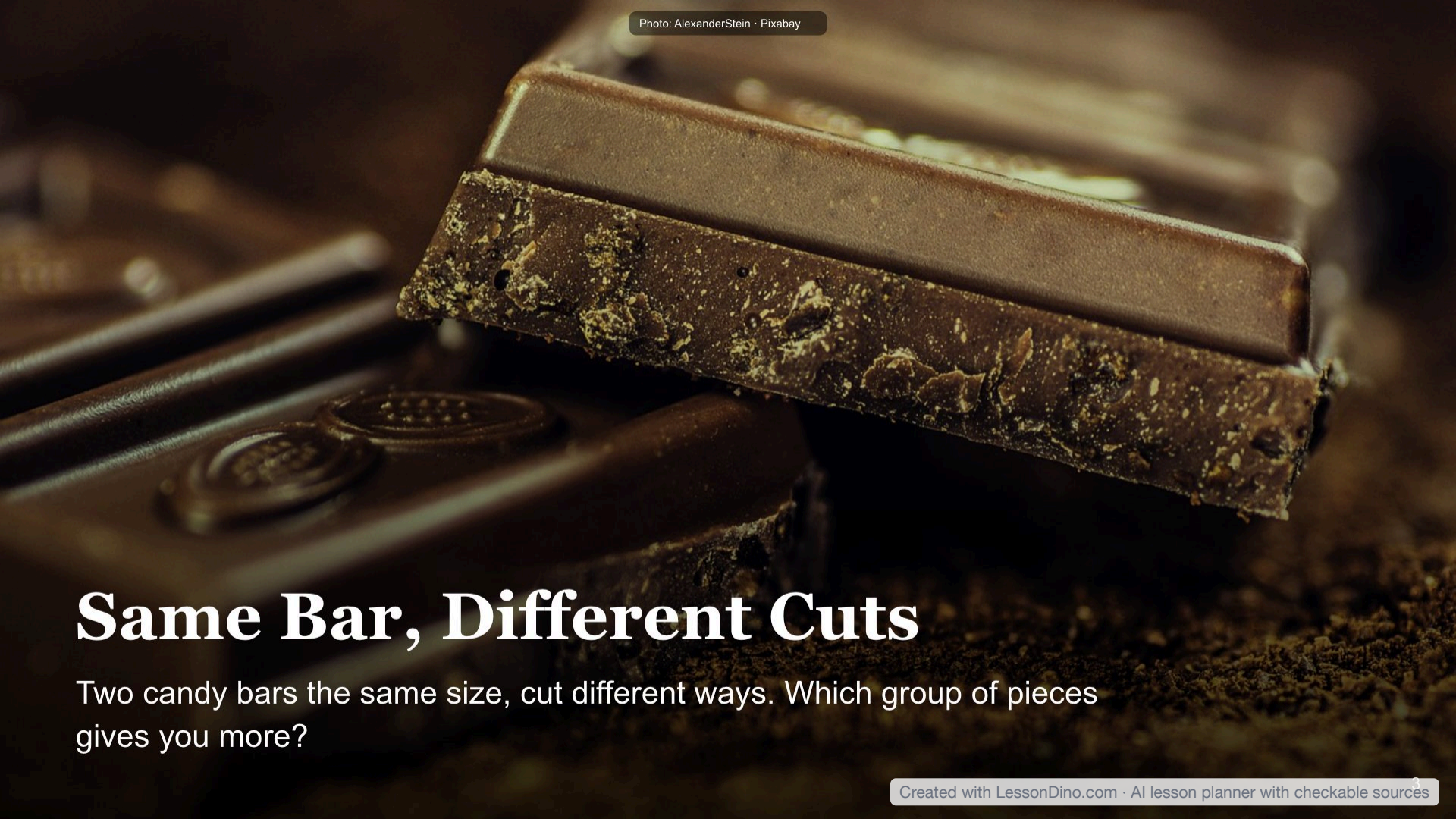
Compare two fractions with different top and bottom numbers.

Use same-size pieces or 1/2 to compare fairly.

SUCCESS LOOKS LIKE

- ✓ I can write > , < , or = correctly.
- ✓ I can prove it with a bar model.

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Same Bar, Different Cuts

Two candy bars the same size, cut different ways. Which group of pieces gives you more?

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Three Ways to Compare



Same-size pieces

Change to same bottom number (denominator = piece size).



Same count

Keep same top number (numerator = count) and compare pieces.



Use 1/2 helper

Benchmark 1/2 is a helper. Is each more or less?

Watch: Same-Size Pieces Win



▶ 0:00 – 4:02

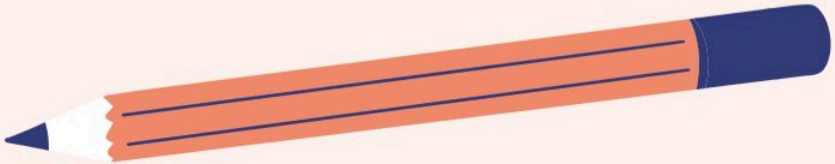
- Watch how twelfths make 2/3 and 3/4 easy
- Listen for same-size pieces idea

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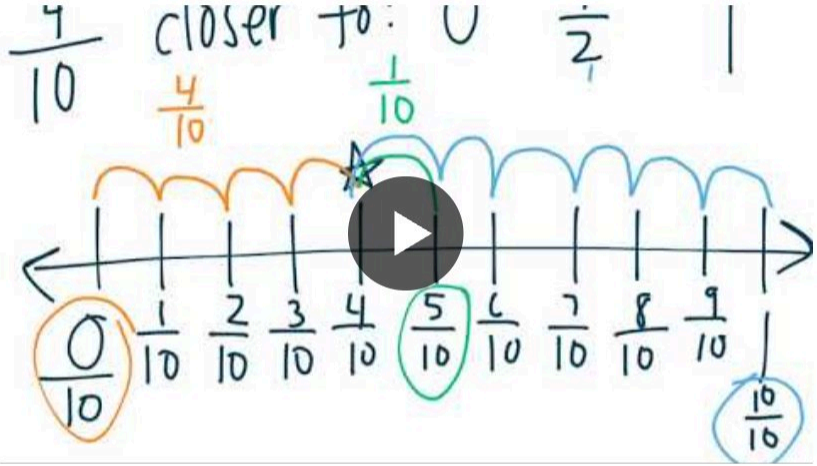
BIG IDEA

Fair compare needs the same whole, then same-size pieces.



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Watch: The 1/2 Helper



▶ 2:00 – 7:00

- See how 3/8 and 4/6 compare to 1/2
- Notice which side of half each sits on

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Your task

Compare 3/5 and 2/3 with strips. Write > , < , or = and sketch proof.

1. Lay strips to show 3/5 and 2/3 same length.
2. Rewrite both as fifteenths: 9/15 and 10/15.
3. Record 3/5 < 2/3 and explain with drawing.

10 min

In pairs

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Compare Like a Pro

Same whole only

Both bars must start the same length.

Use > < =

Hungry mouth opens to the bigger fraction.

Show it

Draw bars or strips to prove your answer.

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Which helper fits you?

Which way do you like best to compare 3/8 and 4/6?

- **A** Make same bottom numbers
- **B** Make same top numbers
- **C** Compare each to 1/2
- **D** Draw bars side by side

Vote with your hands, then explain why.

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True or false?

You can compare fairly even if wholes are different sizes.

3/4 > 3/8 because fourths are bigger than eighths.

3/8 < 1/2 because 3/8 is less than 4/8.

2/5 = 3/10 so neither is greater.

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