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# **Comparing & Ordering Unit Fractions**



# Learning Goal:

I can compare and order unit fractions from greatest to least.

I can understand that piece size gets smaller as the number of pieces increases.

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# **Problems & Investigations**

If you like cookies, would you rather be in a group of 2 people sharing one cookie or 3 people sharing one cookie? Why?

Would you rather be in a group of 2 people sharing 1 cookie or 6 people sharing two cookies? Why?

Would you rather be in a group of 50 people sharing or 25 people sharing? Why?

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Get out your envelop of rectangles from yesterday, and find the one you folded into thirds.

Cut one of the <sup>1</sup>/<sub>3</sub> pieces off of the rectangle.

Flip the larger piece that has two  $\frac{1}{3}$  pieces labeled over and label it  $\frac{2}{3}$ 



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Find the one you folded into fourths.

Cut one of the 1/4 pieces off of the rectangle.

Flip the larger piece that has three ¼ pieces labeled over

and label it 3/4.



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Find the one you folded into sixths.

Cut one of the ½ pieces off of the rectangle.

What should we label the larger part of this shape?



Find the one you folded into eighths.

Cut one of the 1/8 pieces off of the rectangle.

What should we label the larger part of this shape?

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Let's line up each of our Unit Fractions:



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What does the denominator (number on the bottom of each fraction) mean in the context of fair shares?

Let's line up each of our Unit Fractions:



Now let's take a look at these strips of red paper. Let's pretend these red pieces are imaginary licorice whips. We are going to work together to fold, cut, label, and order a set of unit fractions.

What do you think will happen as we use these long strips, will ½ still be more than ¼?

Will <sup>1</sup>/<sub>8</sub> of one of the strips be smaller than <sup>1</sup>/<sub>4</sub> of another?

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1/1=1

If one person would get this one, and doesn't have to share it, what would we label it?

If two people are sharing this one, how much is each person's share? <sup>1</sup>/<sub>2</sub>

If three people are sharing this one, how much is each person's share?  $\frac{1}{3}$ 

If four people are sharing this one, how much is each person's share? <sup>1</sup>/<sub>4</sub>

If six people are sharing this one, how much is each person's share? <sup>1</sup>/<sub>6</sub>

If eight people are sharing this one, how much is each person's share? <sup>1</sup>/<sub>8</sub>

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#### Let's put our red pieces in order from greatest to least.



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Are these both one-half? How can that be?



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Which half would you rather have? Why?

Which half is bigger? How do you know?

Does the size of the whole matter? Why?

# Daily Practice

#### Must Do

- Student Book Page 129
- XtraMath

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#### May Do

- 3B Add & Round Tens
- 3C Round Ball Hundreds
- 3D Round & Add Hundreds
- 4A Tic-Tac-Tock
- 4B Measurement Scavenger Hunt
- 4C Target One Thousand