## Lesson 19: Compare to 1

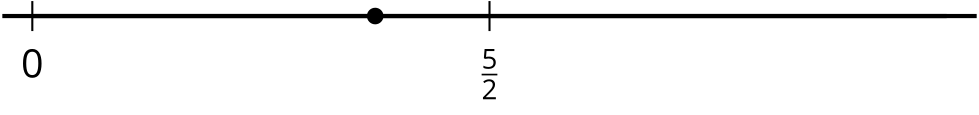
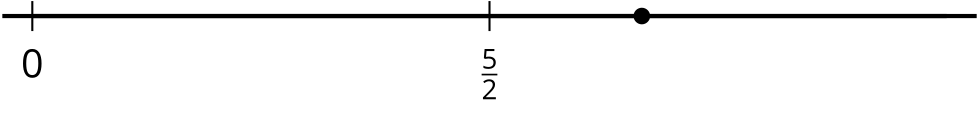
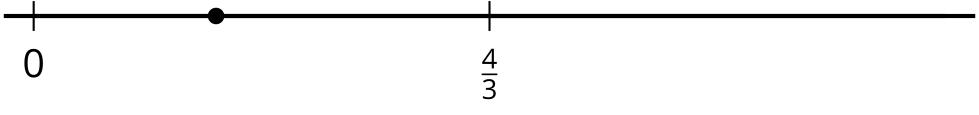
* Let’s explain what happens when we multiply a fraction by a fraction greater than, less than, or equal to 1.

### Warm-up: What Do You Know About ?

What do you know about ?

### 19.1: Compare Fraction Products on the Number Line

1. Match the expressions and number lines that show the same value.

* A
* B
* C

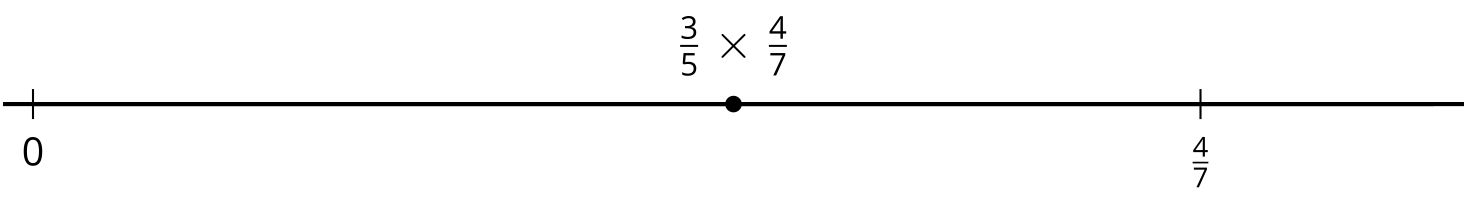
1. Choose one of the expressions from each set and explain whether the value is greater than or less than the second factor.

### 19.2: True Statement

1. Rewrite each expression as a sum or difference of 2 products.
2. Fill in each blank with or to make the inequality true.
3. Describe the value of the product when is multiplied by a fraction greater than 1. Explain your reasoning.
4. Describe the value of the product when is multiplied by a fraction less than 1. Explain your reasoning.

### Section Summary

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In this section, we learned how to compare the size of a product to the size of the factors. To compare with , for example, we can put them on a number line.  
Since is 3 equal parts with 5 parts in the whole, it is to the left of , only part of the way there. We can also see this by writing as .

The product is less than because it is minus a fraction.



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