## Lesson 9: Differences of Fractions

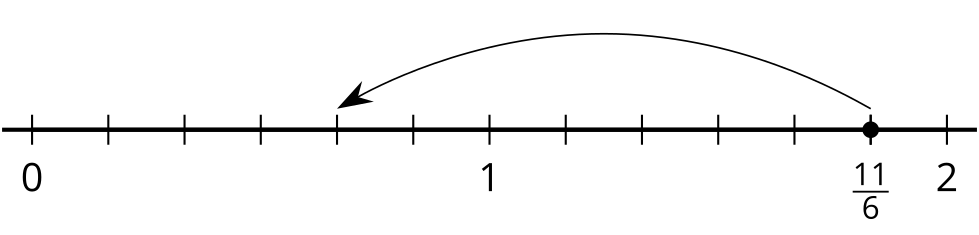
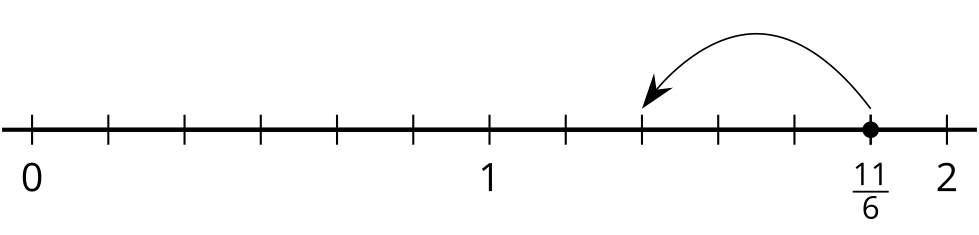
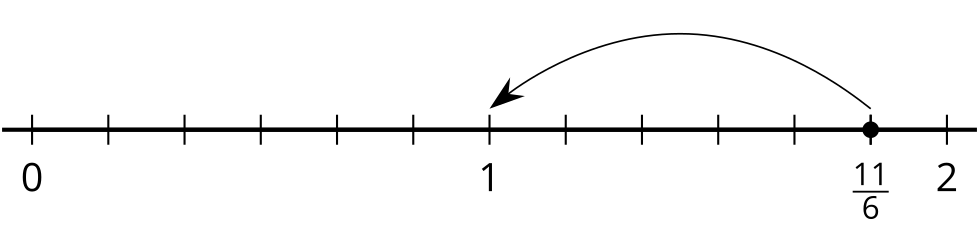
* Let’s explore differences of fractions on a number line.

### Warm-up: True or False: Sums of Tenths

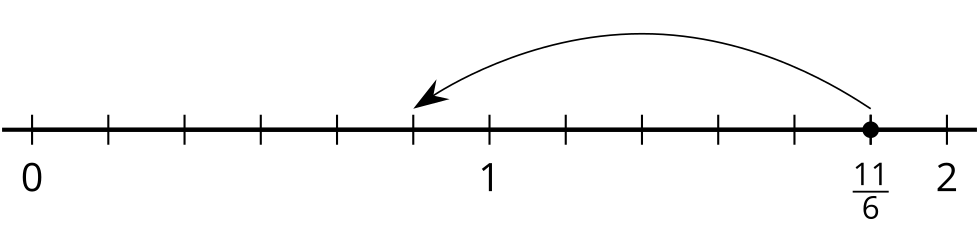
Decide if each statement is true or false. Be prepared to explain your reasoning.

### 9.1: Jump to Subtract

1. To subtract different fractions from , Noah draws “jumps” on number lines.

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* 
  1. The first diagram shows how he finds . What is the value of ?
  2. Write an equation to show the difference represented by each of Noah’s diagrams.

1. Here is another diagram Noah draws:

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* Which equations could the diagram represent? Explain your reasoning.

1. Use a number line to represent each difference and to find its value.
   * 
   * 
   * 

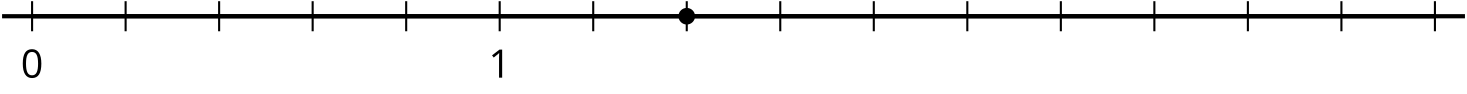
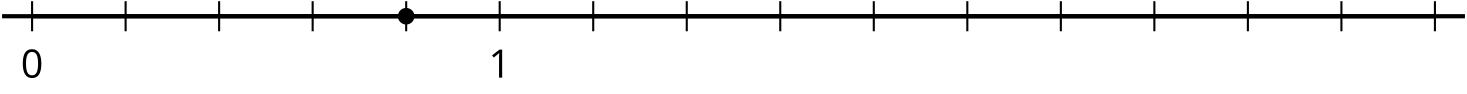
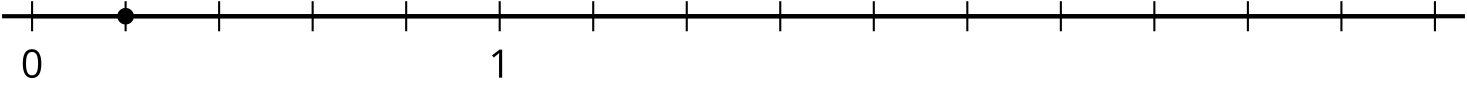
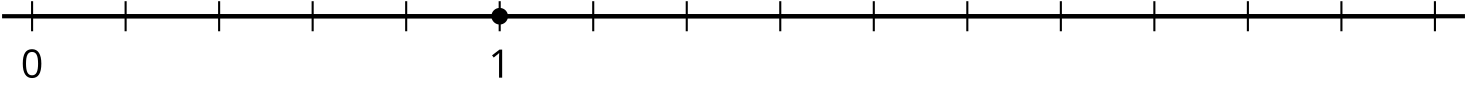
### 9.2: What’s the Difference?

Use a number line to represent each difference and to find its value.

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* 
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* 
* 
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### 9.3: Make a Jump, Subtraction Edition

Here are four number lines, each with a point on it. Label each point with a fraction it represents.

1. 
2. 
3. 
4. 

The point you labeled is your target.

* Pick a card from the set given to you. Locate and label the fraction on the number line.
* From that point, draw one or more jumps to reach the target. What do you need to subtract? Label each jump you draw.
* Write an equation to represent the difference of your two fractions.



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