## Unit 4 Lesson 7: Slopes of Segments

### 1 Math Talk: Evaluating Fractions (Warm up)

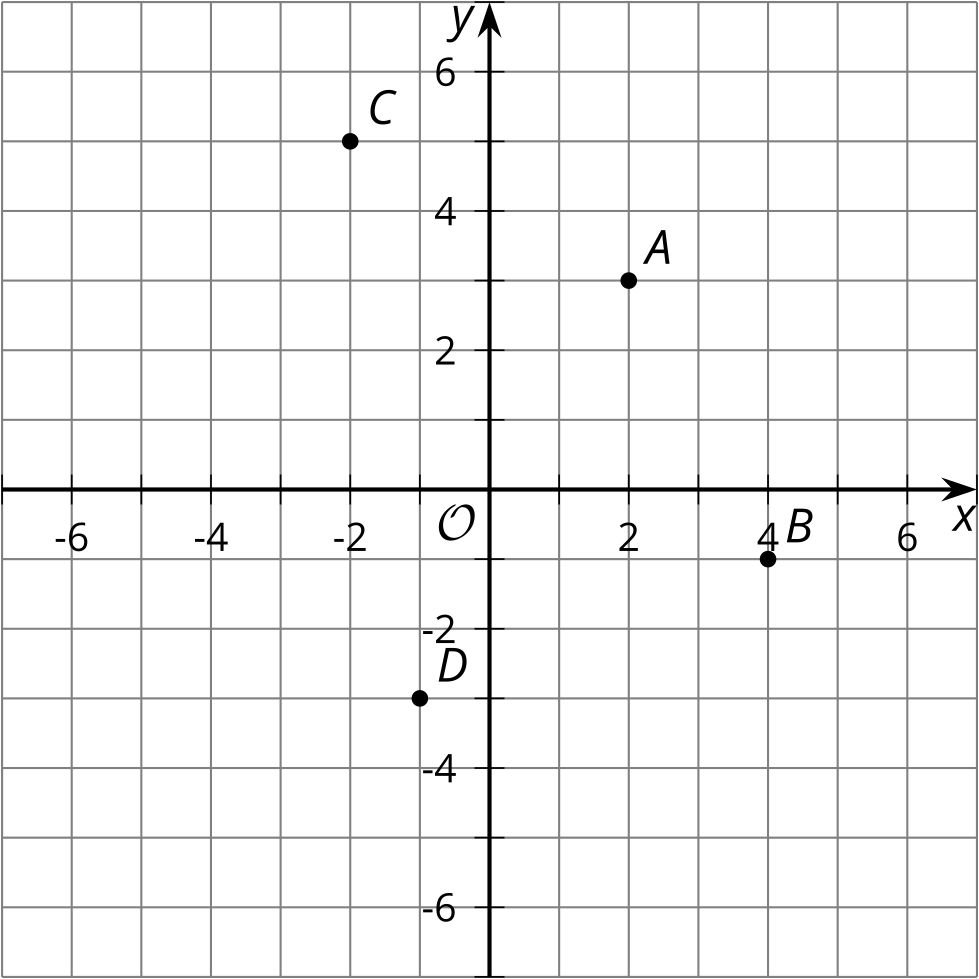
#### Student Task Statement

Evaluate mentally.

### 2 Connect the Dots

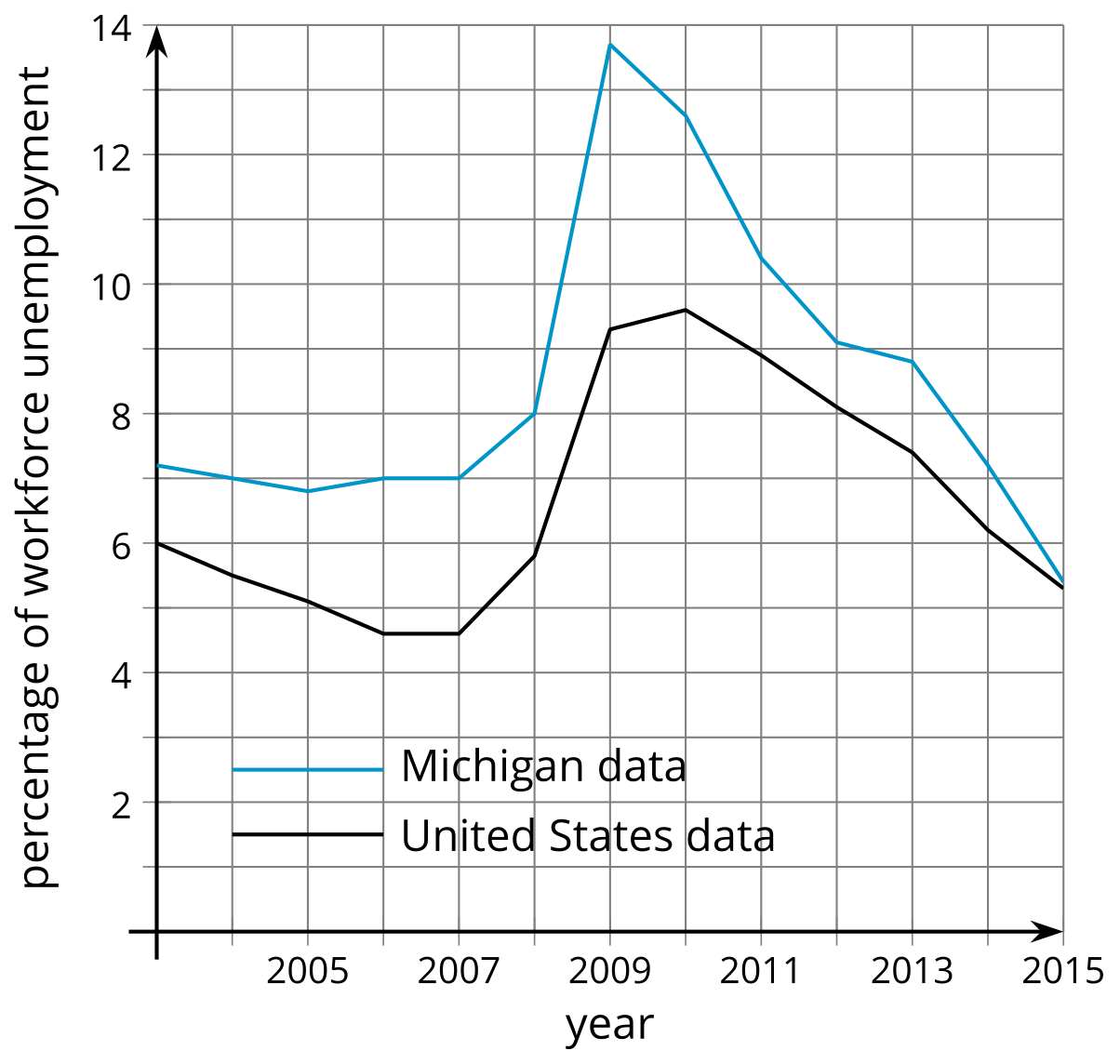
#### Student Task Statement

1. Find the slope of the line that connects the given points.
   1. and
   2. and
   3. and
   4. and
   5. and
2. For each pair of points, find the slope of the line that goes through the 2 points.

* 
  1. and
  2. and
  3. and
  4. and

### 3 Ups and Downs

#### Student Task Statement



| Year | Michigan | United States |
| --- | --- | --- |
| 2003 | 7.2 | 6 |
| 2004 | 7 | 5.5 |
| 2005 | 6.8 | 5.1 |
| 2006 | 7 | 4.6 |
| 2007 | 7 | 4.6 |
| 2008 | 8 | 5.8 |
| 2009 | 13.7 | 9.3 |
| 2010 | 12.6 | 9.6 |
| 2011 | 10.4 | 8.9 |
| 2012 | 9.1 | 8.1 |
| 2013 | 8.8 | 7.4 |
| 2014 | 7.2 | 6.2 |
| 2015 | 5.4 | 5.3 |

1. What do the slopes of the segments mean?
2. Find the slope of the segment between 2004 and 2005 for unemployment in Michigan.
3. Between what 2 years is the slope for the United States unemployment percentage greatest?
   1. Explain your reasoning using the graph.
   2. Explain your reasoning using the table.
4. Between what 2 years is the slope for the United States unemployment percentage the least? Explain or show your reasoning.



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