

Modeling Linear Data Applications

CLASS CODE

Practice defining variables, modeling linear data, domain and range, and the meaning of slope.

Activity Checklist









- Complete the activity using student preview.
- Identify your learning targets for the activity.
- Determine the screens where you'll bring the class together using Teacher Pacing and Pause Class. What will you discuss on those screens?
- Anticipate screens where students will struggle, then plan your response.
- Plan a challenge for students who finish the activity quickly and successfully.
- Make yourself available during the activity to students for individual help and questions when appropriate.
- Write out your summary of the activity's main ideas. How will you pull student work into that summary? Which parts of the activity can you skip to ensure that summary receives sufficient time?

My Learning Targets:

Activity Screens: Teacher Pacing and Pause Class

Use this page to plan your use of Teacher Pacing and Pause Class. Teacher Pacing lets you restrict students to a single screen or a range of screens. Pause Class keeps students from interacting with whatever screens they are currently viewing. Use these two tools to create conversations in your classroom. Consider these questions as you plan:

- Which screen(s) should everyone work on at the same time? Why?
- Which screen(s) do you want to keep students from seeing until you're ready for the class to see them together? (Perhaps because they reveal answers or require a whole class conversation for introduction.)
- Are there any points in the lesson where you will want to make sure students aren't playing with the screens while you discuss something as a class?

<p>1 Defining Variables The number of work-related injury cases in the U.S. private industry is given</p> 	<p>2 Finding a Model The number of work-related injury</p>  <p>$f(x)$</p>	<p>3 Domain and Rang... The number of work-related injury cases in the U.S. private industry is given</p> 	<p>4 Explain the meani... The number of work-related injury cases in the U.S. private industry is given</p> 
<p>5 Defining Variables The total revenue for Apple, Inc. for several years is given below.</p> 	<p>6 Finding a Model The total revenue for Apple, Inc. for</p>  <p>$f(x)$</p>	<p>7 Domain and Rang... The total revenue for Apple, Inc. for several years is given below.</p> 	<p>8 Explain the meani... The total revenue for Apple, Inc. for several years is given below.</p> 

1 Defining Variables

The number of work-related injury cases in the U.S. private industry is given below.



The number of work-related injury cases in the U.S. private industry is given below.

Year	Number of Injury Cases (in thousands)
2003	4095
2004	4008
2005	3972
2006	3857

In the box below define variables that would be appropriate for a model of this data.

My Notes:

2 Finding a Model

The number of work-related injury cases in



$f(x)$

The number of work-related injury cases in the U.S. private industry is given below.

Year	Number of Injury Cases (in thousands)
2003	4095
2004	4008
2005	3972
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Then, find a model for this data using the variables we all agreed upon. In the box below submit your model in function notation.

My Notes:

3 Domain and Range fo...

The number of work-related injury cases in the U.S. private industry is given below.



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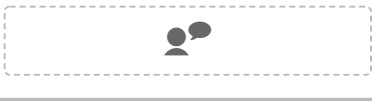
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In the box below enter a reasonable domain and range for your model. Label your answers as domain and range.

My Notes:

4 Explain the meaning o...

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In the box below write a sentence explaining the meaning of the slope of your model.

My Notes:

5 Defining Variables

The total revenue for Apple, Inc. for several years is given below.



The total revenue for Apple, Inc. for several years is given below.

Year	Total Revenue (in millions of \$)
2004	8,279
2005	13,931
2006	19,315
2007	24,006
2008	32,479

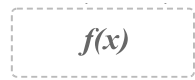
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6 Finding a Model



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My Notes:

Summary Notes:
