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## Broken-Line Graphs




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## Sample Problem - Broken-Line Graph

Jacob owns a small appliance repair company. He tracked the company's net profits over a 10 -year period. He is examining the data to see if there is a trend and to decide if he can increase the salaries of his employees.

| COMPANY'S NET PROFIT, 2000-2009 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: |
| Year | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 |  |  |  |  |
| Profit (thousands <br> of dollars) | 5 | 15 | 18 | 35 | 40 | 38 | 42 | 20 | 58 | 65 |  |  |  |  |

a) Graph the data on a broken line graph.
b) Is there a general trend in the data? If so, what is it? Are there any exceptions to the trend?

## Sample Problem - Broken-Line Graph

The following graph shows the growth rate of a bean plant that David planted in his vegetable garden.
a) David forgot to record the height of the bean plant in Week 4. Use the graph to interpolate the height of the plant that week.
b) What might the height of the plant be in Week 12?
c) Write a statement describing trends in the bean plant's growth rate from Week 0 to Week 11.


