**Graphing Practice #1 Name**

Directions-Use graph paper to construct a complete line graph for each set of data!

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| **Example 1**: | The table below shows daily temperatures for New York City, recorded for 6 days, in degrees Fahrenheit. |
| http://www.mathgoodies.com/lessons/graphs/images/tab.gif | |
|  | |  |  | | --- | --- | | **Temperatures In NY City** | | | **Day** | **Temperature** | | 1 | 43° F | | 2 | 53° F | | 3 | 50° F | | 4 | 57° F | | 5 | 59° F | | 6 | 67° F | |

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| **Example 2**: | Sarah bought a new car in 2001 for $24,000. The dollar value of her car changed each year as shown in the table below. |
| http://www.mathgoodies.com/lessons/graphs/images/tab.gif | |
|  | |  |  | | --- | --- | | **Value of Sarah's Car** | | | **Year** | **Value** | | 2001 | $24,000 | | 2002 | $22,500 | | 2003 | $19,700 | | 2004 | $17,500 | | 2005 | $14,500 | | 2006 | $10,000 | | 2007 | $ 5,800 | |

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| **Example 3**: | The table below shows Sam's weight in kilograms for 5 months. |
| http://www.mathgoodies.com/lessons/graphs/images/tab.gif | |
|  | |  |  | | --- | --- | | **Sam's Weight** | | | **Month** | **Weight in kg** | | January | 49 | | February | 54 | | March | 61 | | April | 69 | | May | 73 | |

**Graphing Practice #2 Name**

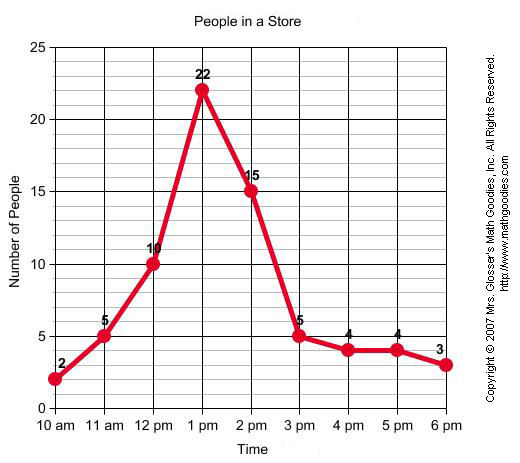
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| **Example #1 Questions** | | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 1. | What is the title of this line graph? |  |  |
| 2. | What is the range of values on the horizontal scale? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 3. | What is the range of values on the vertical scale? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 4. | How many points are in the graph? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 5. | What was the lowest temperature recorded? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 6. | What was the highest temperature recorded? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 7. | At what point did the temperature dip? |  |  |

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| **Example #2 Questions** | | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 1. | What is the title of this line graph? |  |  |
| 2. | What is the range of values on the horizontal scale? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 3. | What is the range of values on the vertical scale? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 4. | How many points are in the graph? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 5. | What was the highest value recorded? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 6. | What was the lowest value recorded? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 7. | Did the value of the car increase or decrease over time? |  |  |

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| **Example #3 Questions** | | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 1. | What is the title of this line graph? |  |  |
| 2. | What is the range of values on the horizontal scale? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 3. | What is the range of values on the vertical scale? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 4. | How many points are in the graph? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 5. | What was the highest value recorded? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 6. | What was the lowest value recorded? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 7. | Did Sam's weight increase or decrease over time? |  |  |

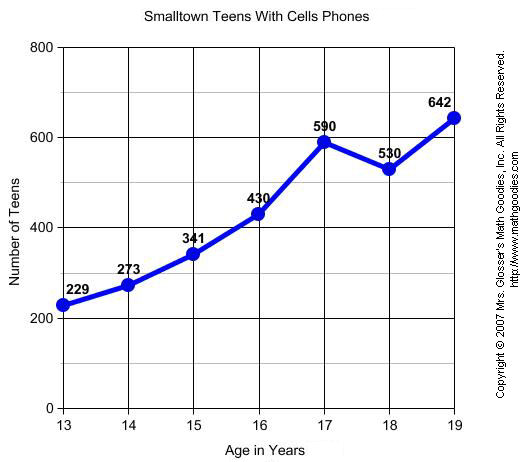
**Graphing Practice #3 Name**

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| Example 4: | The line graph below shows people in a store at various times of the day. |



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| --- | --- | --- | --- |
| **QUESTION** | | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 1. | What is the line graph about? |  |  |
| 2. | What is the busiest time of day at the store? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 3. | At what time does business start to slow down? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 4. | How many people are in the store when it opens? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 5. | About how many people are in the store at 2:30 pm? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 6. | What was the greatest number of people in the store? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 7. | What was the least number of people in the store? |  |  |

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| Example 5: | The line graph below shows the number of teens ages 13 through 19 in Smalltown that have cell phones. |



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| --- | --- | --- | --- |
| **QUESTION** | | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 1. | What is the line graph about? |  |  |
| 2. | At what age do teens have the greatest number cell phones? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 3. | At what age do teens have the least number of cell phones? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 4. | How many cell phones do 15 year-olds have? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 5. | About how many cell phones do 16.5 year-olds have? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 6. | What was the greatest number of cell phones at any age? | http://www.mathgoodies.com/lessons/graphs/images/tab.gif |  |
| 7. | What was the least number of cell phones at any age? |  |  |

**Graphing Data Practice** Name

The following data was collected as a bicyclist was traveling around a track. Use graph paper and construct a graph of the data.

|  |  |
| --- | --- |
| **Time (s)** | **Distance (m)** |
| 0 | 0 |
| 1 | 2 |
| 2 | 8 |
| 3 | 18 |
| 4 | 32 |
| 5 | 50 |
| 6 | 72 |
| 7 | 98 |
| 8 | 128 |
| 9 | 162 |
| 10 | 200 |

Questions-

1. What is the shape of your graph?
2. What type of relationship is this?
3. What type of motion is this?
4. How far did the bicyclist travel at t = 9.5 s?
5. Assume the bicyclists maintains a constant speed…what distance will be covered in t = 15 s?
6. Calculate the slope of this line!
7. What does the slope of this graph tell us?