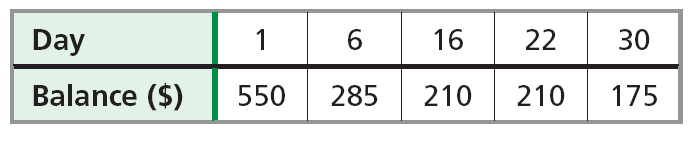
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ November 12, 2014

|  |  |
| --- | --- |
| Today’s objective: | |
| What is rate of change?  **Example 1:** | A **rate of change** is a ratio that compares the amount of change in a dependent variable to the amount of change in an independent variable.  **Rate of change =** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **The table shows the average temperature (°F) for five months in a certain city. Find the rate of change for each time period.**    Dependent variable:  Independent variable:  Rate of change: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Month 2 to 3:  Month 3 to 5:  Month 5 to 7:  Month 7 to 8: |

**FIND RATE OF CHANGE**

1. **The table shows the balance of a bank account on different days of the month. Find the rate of change during each time interval.**

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Dependent Variable: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Independent Variable: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Day 1 to 6: Day 16 to 22:

Day 6 to 16: Day 22 to 30:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. **Find the rate of change:**     DV: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ IV: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  2 to 4 balloons: 6 to 8 balloons:  4 to 6 balloons: | 1. **Find the rate of change:**  |  |  | | --- | --- | | **Year** | **Population** | | **1** | **12,000** | | **3** | **14,000** | | **4** | **25,000** | | **7** | **43,000** |   DV: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ IV:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  1 to 3 years: 4 to 7 years:  3 to 4 years: |
| 1. **Find the rate of change:**     DV: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ IV: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  2 to 4 tickets: 8 to 10 tickets:  4 to 8 tickets: | 1. **Find the rate of change:**  |  |  | | --- | --- | | **Hours:** | **Miles Driven** | | **1** | **70** | | **5** | **310** | | **10** | **660** | | **12** | **790** |   DV: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ IV: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  1 to 5 hours: 10 to 12 hours:  5 to 10 hours: |
| DV: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ IV: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  10 to 20 photos: 30 to 40 photos:  20 to 30 photos: | **7.**    DV: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ IV: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  3 to 5 lawns: 7 to 9 lawns:  5 to 7 lawns: |
| **8.**   |  |  | | --- | --- | | **Number of Cookies** | **Total Cost**  **$** | | **1** | **1** | | **5** | **4** | | **12** | **7.50** | | **36** | **12.30** |   DV: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ IV: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  1 to 5 cookies: 12 to 36 cookies:  5 to 12 cookies: | **9.**   |  |  | | --- | --- | | **Day** | **Total Calories Consumed** | | **1** | **2,000** | | **5** | **8,000** | | **10** | **15,500** | | **12** | **18,500** |   DV: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ IV: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  1 to 5 days: 10 to 12 days:  5 to 10 days: |