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

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| 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:

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| 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.**

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| **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: |