

#1

In a letter to parents, Silvergrove High reported on the number of honors students at the school each year. According to the table, what was the rate of change between 2005 and 2008? Write your answer as a decimal rounded to two decimal places, or an integer.

Honors students at Silvergrove High

Year	Honors students
2005	3
2006	44
2007	43
2008	13
2009	32

- 3.91 students per year       2.57 students per year  
 3.33 students per year       3.69 students per year

Show your work

#2

A local newspaper publishes the table below every Monday. The graph is a count of how many complaints they have gotten each day. Abigail needs to know the rate of change between Tuesday and Friday. Calculate the rate of change and write your answer as a decimal rounded to two decimal places, or an integer.

Newspaper Complaints

Day	Complaints
Monday	34
Tuesday	29
Wednesday	23
Thursday	32
Friday	34

- 2.13 per day       1.61 per day  
 1.67 per day       1.76 per day

Show your work

#3

Isabelle spent a week at the beach and recorded the number of shells she found each day. According to the graph, what was the rate of change between Tuesday and Saturday? Write your answer as a decimal rounded to two decimal places, or an integer.

Shells Isabelle Found

Day	Number of shells
Tuesday	11
Wednesday	32
Thursday	31
Friday	1
Saturday	31

shells per day

Show your work

#4

Hailey counts the total of times each month that she is grumpy. Using the table below find the rate of change between April and May? Write your answer as a decimal, rounded to two decimal places, or an integer.

Hailey's Grumpy Days

Month	Grumpy Day
April	39
May	29
June	49
July	39
August	42

- 11 per month       -10 per month  
 -8 per month       -7 per month

Show your work

#5

Anthony's dad keeps track of how many times a month that Anthony forgets to do his chores. According to the table, what was the rate of change between September and October? Write your answer as a decimal, rounded to two decimal places, or an integer.

Anthony's Forgotten Chores

Month	Chores Forgotten
June	46
July	4
August	37
September	47
October	19

- 28 per month       -29 per month  
 -33 per month       -22 per month

Show your work

#6

If Diana tracks how many homework assignments she has each month in the table below, what is the rate of change between August and September? Write your answer as a decimal, rounded to two decimal places, or an integer.

Homework Assignments

Month	Assignments
May	9
June	40
July	42
August	38
September	2

assignments per month

Show your work

#7

A PhD student in forestry is doing research on the populations of poplar trees. She has constructed the graph below on how many poplar trees she sees each day and needs to the rate of change between Thursday and Friday. Calculate it for her and write your answer as a decimal rounded to two decimal places, or an integer.

Poplar Trees Seen

Day	Poplars
Monday	8
Tuesday	29
Wednesday	46
Thursday	45
Friday	27

- 16 per day                       -20 per day  
 -18 per day                       -17 per day

Show your work

#8

The financial aid office at the University of Toronto produced an internal report on the number of students who received scholarships. According the table, what was the rate of change between 2004 and 2005? Write your answer as a decimal rounded to two decimal places, or an integer.

Students received scholarships

Year	Students
2001	24
2002	4
2003	8
2004	10
2005	33

students per year

Show your work

#9

Each year Alyssa uses the table below to decide how many emergency candles to buy. She uses the rate of change between two years to find out how many candles she needs. What is the rate of change between 1996 and 1998? Write your answer as a decimal rounded to two decimal places, or an integer.

Emergency Candle Supply

Year	Candles
1995	33
1996	7
1997	18
1998	18
1999	49

per year

Show your work

#10

A company keeps track of how many sick days are reported each month. According to the table, what was the rate of change between June and September? Write your answer as a decimal, rounded to two decimal places, or an integer.

Employee Sick Days

Month	Sick Days
May	13
June	15
July	11
August	38
September	39

- 8 per month                       7 per month  
 6 per month                       10 per month

Show your work

#11

CrossProduct Industries keeps track of how many employees retire each month. According to the table, what was the rate of change between April and May? Write your answer as a decimal, rounded to two decimal places, or an integer.

Retired Employees

Month	Retirees
March	25
April	22
May	16
June	9
July	3

- 3 per month                       -6 per month  
 -9 per month                       -7 per month

Show your work

#12

A company keeps track of how many sick days are reported each month. According to the table, what was the rate of change between April and May? Write your answer as a decimal, rounded to two decimal places, or an integer.

Employee Sick Days

Month	Sick Days
January	44
February	1
March	18
April	35
May	21

sick days per month

Show your work

Question	Answer
#1	choice 3
#2	choice 3
#3	[+]5
#4	choice 2
#5	choice 1
#6	[-]36
#7	choice 3
#8	[+]23
#9	[+]5.5
#10	choice 1
#11	choice 2
#12	[-]14