

#1

An archaeologist documents how many dinosaur bones they dig up each day while out on a dig site. Using the graph below, calculate the rate of change between Tuesday and Thursday. Write your answer as a decimal rounded to two decimal places, or an integer.

Bones Found

Day	Bones
Sunday	15
Monday	40
Tuesday	6
Wednesday	12
Thursday	20

- 4 per day                       9 per day  
 7 per day                       5 per day

Show your work

#2

Kaylee records how many times she practices piano each month. According to the table, what was the rate of change between April and June? Write your answer as a decimal, rounded to two decimal places, or an integer.

Piano Practice

Month	Practices
March	15
April	47
May	12
June	40
July	5

times per month

Show your work

#3

The financial aid office at the University of Toronto produced an internal report on the number of students who received scholarships. According to the table, what was the rate of change between 2002 and 2004? Write your answer as a decimal rounded to two decimal places, or an integer.

Students received scholarships

Year	Students
2001	12
2002	13
2003	7
2004	33
2005	31

students per year

Show your work

#4

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

#5

Using the table of historical data on whale populations below, find the rate of change between 1993 and 1994. Write your answer as a decimal rounded to two decimal places, or an integer.

Whale Population

Year	Population
1990	23
1991	10
1992	37
1993	19
1994	9

- 12 whales per year
- 10 whales per year
- 9 whales per year
- 11 whales per year

Show your work

#6

Each year Landon uses the table below to decide how many emergency candles to buy. He uses the rate of change between two years to find out how many candles he needs. What is the rate of change between 2006 and 2009? Write your answer as a decimal rounded to two decimal places, or an integer.

Emergency Candle Supply

Year	Candles
2005	15
2006	31
2007	40
2008	49
2009	11

per year

Show your work

#7

Julia decides to keep track of how many times she thinks about video games in a day. After making the graph below she wants to calculate the rate of change between Tuesday and Thursday. Calculate it for her and write your answer as a decimal rounded to two decimal places, or an integer.

Thoughts of Videogames

Day	Thoughts
Sunday	5
Monday	43
Tuesday	38
Wednesday	29
Thursday	7

- 19 per day
- 15.5 per day
- 11.9 per day
- 12.1 per day

Show your work

#8

A high school badminton team documents how many games they win each year. Using their table below, find the rate of change between 2005 and 2006. Write your answer as a decimal rounded to two decimal places, or an integer.

Badminton Games Won

Year	Won
2003	45
2004	14
2005	17
2006	27
2007	26

per year

Show your work

#9

Using the table of historical data on whale populations below, find the rate of change between 2001 and 2004. Write your answer as a decimal rounded to two decimal places, or an integer.

Whale Population

Year	Population
2000	40
2001	22
2002	19
2003	10
2004	38

per year

Show your work

#10

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

Shells Jayden Found

Day	Number of shells
Monday	17
Tuesday	39
Wednesday	32
Thursday	33
Friday	14

- 2 per day
- 1 per day
- 0 per day
- 3 per day

Show your work

#11

A company keeps track of how many employees skip their lunch break each day. The boss was given the graph below and wants to know the rate of change between Sunday and Wednesday. Calculate it and write your answer as a decimal rounded to two decimal places, or an integer.

Lunches Skipped

Day	Employees
Sunday	11
Monday	22
Tuesday	12
Wednesday	19
Thursday	34

- 2.12 per day
- 2.67 per day
- 3.05 per day
- 2.05 per day

Show your work

#12

Soccer Coach Mackenzie keeps a table of how many games her team has won each month. Using the table find the rate of change between October and December? Write your answer as a decimal, rounded to two decimal places, or an integer.

Soccer Team Wins

Month	Wins
August	46
September	9
October	3
November	41
December	2

wins per month

Show your work

Question	Answer
#1	choice 3
#2	[-]3.5
#3	[+]10
#4	choice 3
#5	choice 2
#6	[-]6.67
#7	choice 2
#8	[+]10
#9	[+]5.33
#10	choice 2
#11	choice 2
#12	[-]0.5