

Rate of Change Homework

YOU MAY USE A CALCULATOR

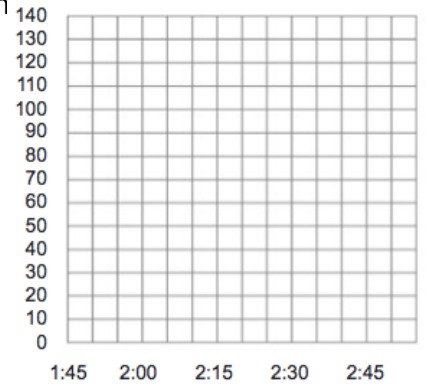
1. The table shows the cost per pound of Granny Smith apples.

Weight (lb)	1	2	3	4
Cost (\$)	1.49	2.98	4.47	5.96

- Describe the rate(s) of change shown by the data. (is it constant? Is it changing?)
- What does the rate of change mean in terms of the situation?

2. The table shows the distance of a traveler from her destination

Time (p.m.)	1:45	2:15	2:30	2:45	3:00
Distance (mi)	120	90	90	60	45



- Graph the data on the graph to the right.
- What is the rate of change from 2:15 p.m. to 2:30 p.m.? What does this rate of change mean?

3. The table shows Gabe's height on his birthday for five years.

Age	9	11	12	13	15
Height (in.)	58	59.5	61.5	65	69

During which time period did Gabe grow the fastest?

4. For each x/y table, is the rate of change constant?

x	y
1	10
5	20
6	25
8	35
11	40

x	y
1	10
5	18
6	20
8	24
11	30

x	y
1	5
5	10
6	15
8	20
11	25

5. Guess the Rule:

x	1	2	3	4	5
f(x)	7	10	13	16	19