

Warmup 9/(# of letters in “supercalifragilisticexpialidocious”
- # of store-bought posters in Mr. Lischwe’s room + 3(2) + 1)

Can you figure out the rules???

1)

Input	Output
Garage	g
Baboon	o
Function	o
Kayak	a
Dinosaur	u

2)

Input	Output
Lime	g
Stop Sign	r
Basketball	o
Sky	b
Banana	y

3)

Input	Output
Activity	1
Boston	2
Jupiter	10
Zipper	26
Friends	6

4)

Input	Output
Lischwe	5
Banana	3
Iowa	1
Pretzel	5
The	2

p.175 (1 – 6, 10, 11)

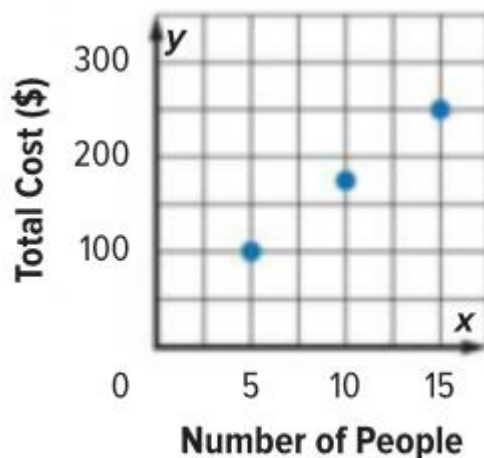
- 1) Yes; the rate of change = 3 cents per hour.
- 2) No; the rate of change from 1 to 2 seconds is 14.7 m/s, but the rate of change from 2 to 3 seconds is 24.5 m/s
- 3) Yes; $\frac{3}{4}$ cup of vinegar for every 2 cups of oil (Or $\frac{3}{8}$ cup of vinegar for each cup of oil).

4) Yes; $2 \frac{\text{in}}{\text{min}}$.

5) Yes; $7.5 \frac{\text{mi}}{\text{in}}$.

6) Yes; \$15 per person. **NOT \$20 per person! It's not proportional!**

Italian Dressing Recipe				
Oil (c)	2	4	6	8
Vinegar (c)	$\frac{3}{4}$	$1\frac{1}{2}$	$2\frac{1}{4}$	3



People	Cost
5	100
10	175
15	250

p.175 (1 – 6, 10, 11)

10. **MP Use Math Tools** Match each table with its rate of change.

2.4 ft/min

10 ft/min

-0.8 ft/min

0.25 ft/min

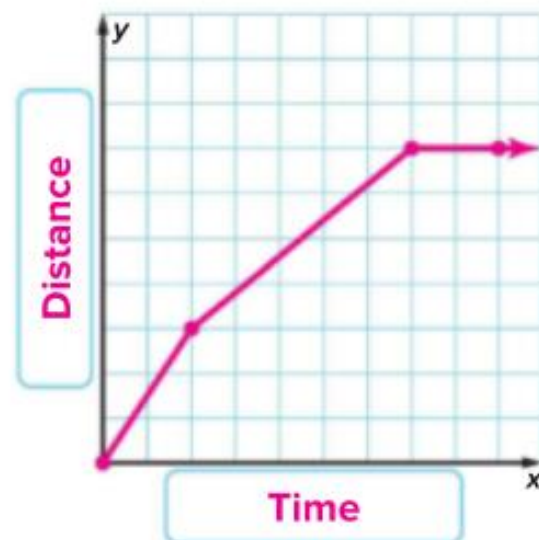
Time (minutes)	20	30	40
Altitude (feet)	170	162	154

Time (minutes)	1	2	3
Distance (feet)	20	30	40

Time (minutes)	4	6	8
Height (feet)	1	1.5	2

Time (minutes)	5	10	15
Depth (feet)	12	24	36

11. **MP Persevere with Problems** A dog starts walking, slows down, and then sits down to rest. Sketch a graph of the situation to represent the different rates of change. Label the x-axis "Time" and the y-axis "Distance". **Sample answer:**



Unit 2 Tests

- Retake deadline: Thursday, October 4 (**Day before the last day of the 9 weeks**)
- **Not tasks; must retake the whole thing!!!**

Group Task: Water Tank



Show ALL your work on a giant whiteboard in an organized manner. I want to see your group's ENTIRE process.

At the end, we will share our methods. I hope that some groups come up with different, creative methods of solving it!

The people that are not writing on the whiteboard need to be participating JUST AS MUCH as the people writing!

Please read the “Good group-mates” poster.