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Red Stream

Algebra 1

## Superheroes in Peril

Could you imagine a superhero yelling for help? “Just use your superpowers,” we said. “What's going on?” we questioned. We walk around town and see most of the superheroes either injured or in need of help. We are so confused. Then we see it and run.

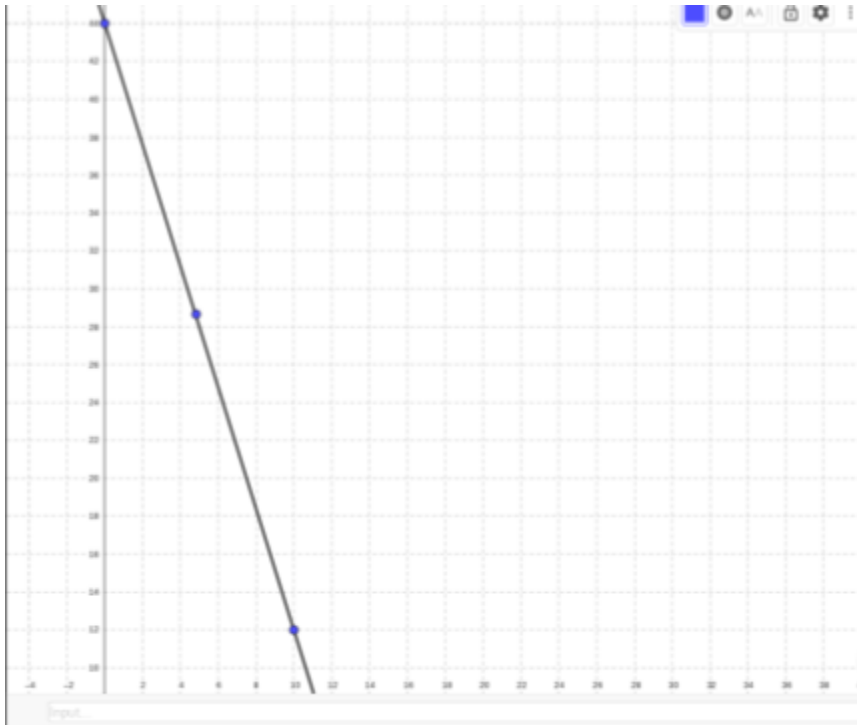
“HAHA,” the Joker laughed. “What do they have in their hands?” The Joker throws it and it covers the area in purple and green gas. “It’s making the heroes lose their powers.” The villains run away. The city had 44 superheroes with powers. Every 5 minutes, 4 superheroes lose their powers.

X (Independent) Amount of minutes	Calculations	Y (Dependent) Amount of super that have lost their power in a certain amount of minutes
0	$44 - 16/5 * 0$	44
5	$44 - 16/5 * 5$	28
10	$44 - 16/5 * 10$	12
15	$44 - 16/5 * 15$	-4
20	$44 - 16/5 * 20$	-20

$$y = -16/5x + 44$$

Slope:  $-16/5x$

y - intercept: 44



“Superman!” We finally have someone to help us. He flies to his secret base and tries to make a cure while the others are fighting the villains. It takes 20 tries to make the medicine. He needs 3 liquid products and that would make 1 medicine. He fails 10 times but he finally gets it and makes the cure. He goes into the city but before he goes out he drops the medicine.

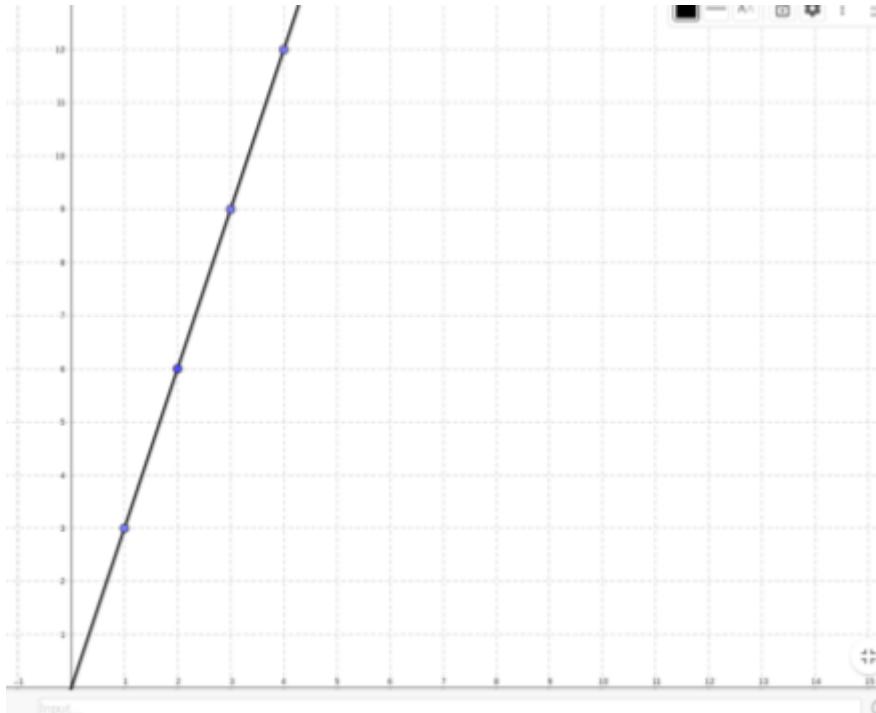
X (Independent) the amount of medicine	Calculation	Y (Dependent) tThe amount of liquid products
0	$3 * 0$	0

1	$3 * 1$	3
2	$3 * 2$	6
3	$3 * 3$	9
4	$3 * 4$	12

$$y=3x$$

Slope: 3

y-intercept: 0



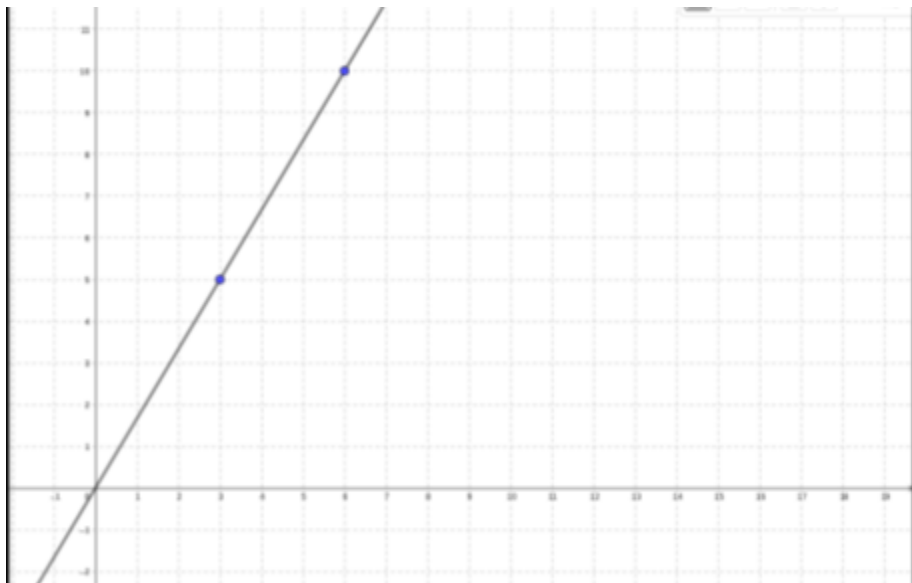
Luckily, Batman catches it. Spreads the gas all over the city. For every 3 superheroes that get their powers back he needs to spray more medicine. It takes 5 minutes to get the superheroes power's back. "Omg, it's working!" "Thank god!" "We are saved!" Everyone in town is cheering.

X (Independent) superheroes	Calculation	Y (Dependent) minutes
0	$\frac{3}{5} * 0$	0
5	$\frac{3}{5} * 5$	3
10	$\frac{3}{5} * 10$	6
15	$\frac{3}{5} * 15$	9
20	$\frac{3}{5} * 20$	12

$y=3/5x$

Slope:  $\frac{3}{5}$

y-intercept:0



Every superhero is back to normal and so is the city. The villains are in jail for now because we don't know what other tricks they got in their sleeves. Superman makes more of the medicine just in case another outbreak happens and the villains escape. We are so very lucky to have these superheroes in our city.

