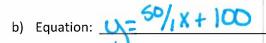
Word Problems Worksheet



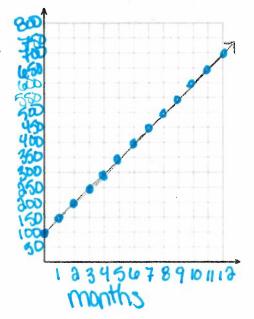
- 1. A cable company charges a one-time activation fee of \$100 plus \$50 per month for service.
 - a) Graph. Don't forget to label each axis!!!





c) What is the total cost after 6 months?



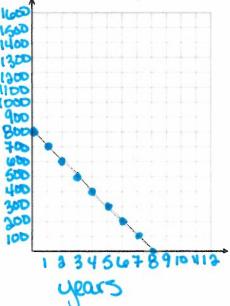


- 2. After a laptop is purchased, its value decreases by \$100 each year. 400 After two years, the laptop is worth \$600.
 - a) Graph. Don't forget to label each axis!!!
 - b) Equation: (12-100/1X+ 800)

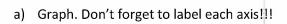


c) How much was the laptop originally worth?





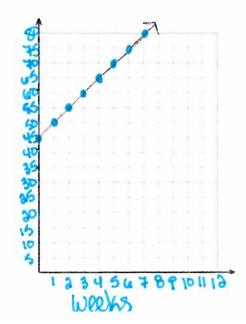
3. You decide to start adding \$5 each week to your bank account, which already has some money in it. After 4 weeks you have a total of \$65 in your savings account.



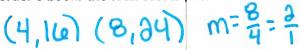


- b) Equation: <u>V= 5/1 X + 45</u>
- c) How much did your account start with?





4. An online book club has a one-time shipping fee plus a cost per book. When you order 4 books the total cost is \$16. When you order 8 books the total cost is \$24.



Graph. Don't forget to label each axis!!!



Equation: 1 3/1X+8

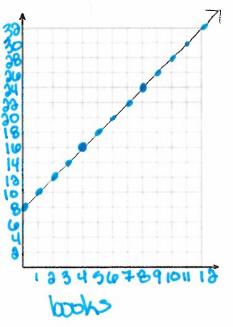
И

What is the cost per book?



What is the one shipping fee?



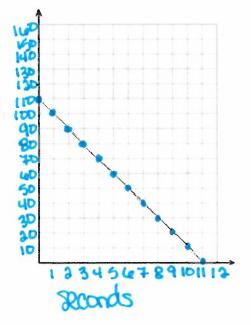


- 5. An elevator in a tall building begins at a point 110 ft above the ground. The elevator descends at a rate of 10 feet per second.
 - Graph. Don't forget to label each axis!!!

- Equation: (15/1X+110)
- How long will it take the elevator to reach ground level?



11 seconds



- 6. There is an initial cost to rent a surfboard plus the cost per day. The total cost for 3 days is \$45 and the total cost for 8 days is \$70.
 - Graph. Don't forget to label each axis!!!



b) Equation: $\frac{\sqrt{5}}{\sqrt{1}} \times \frac{4}{30}$



What is the initial cost of renting the surfboard?



What is the rate per day for renting the surfboard?



