

### Midterm Review - Units 3 & 4

**Find the final price of the items.**

1) Original Price: \$35.98  
Sales Tax: 8.1%

2) Original Price: \$247.15  
Sales Tax: 4.9%

**Find the ending balance for the credit card statements.**

3) On your most recent credit card statement, you have a balance of \$247 and make a payment of \$20. If the interest rate is 4.5%, what is your new balance?

4) On your most recent credit card statement, you have a balance of \$857 and make a payment of \$15. If the interest rate is 5.1%, what is your new balance?

5) On your most recent credit card statement, you have a balance of \$1,236 and make a payment of \$95. If the interest rate is 3.7%, what is your new balance?

6) On your most recent credit card statement, you have a balance of \$894 and make a payment of \$32. If the interest rate is 4.1%, what is your new balance?

**Find the remaining payment amount due for each layaway plan.**

7) You are using a layaway plan to purchase an item. The original price of the item is \$850 and requires a 15% deposit. If the remaining balance will be paid over the course of 4 equal payments, what would be each payment amount?

8) You are using a layaway plan to purchase an item. The original price of the item is \$975 and requires a 10% deposit. If the remaining balance will be paid over the course of 4 equal payments, what would be each payment amount?



9) You are using a layaway plan to purchase an item. The original price of the item is \$1200 and requires a 12% deposit. If the remaining balance will be paid over the course of 4 equal payments, what would be each payment amount?

10) You are using a layaway plan to purchase an item. The original price of the item is \$2230 and requires a 17% deposit. If the remaining balance will be paid over the course of 4 equal payments, what would be each payment amount?

For questions #11-14:

a) Graph a scatter plot of the given data.

b) Sketch a line of best fit.

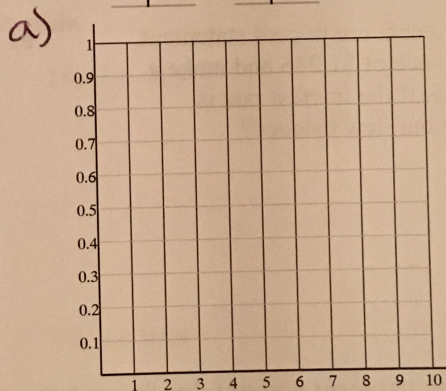
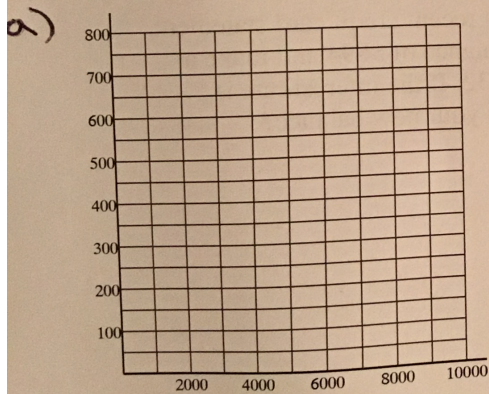
c) Identify is the type of correlation for the data (positive, negative, no correlation)

11)

X	Y	X	Y
7,000	400	10,000	200
9,000	200	5,000	600
1,000	800	9,000	200

12)

X	Y	X	Y
5.9	0.3	0.7	0.55
9.4	0.07	2.8	0.48
8.6	0.09	9.9	0.06



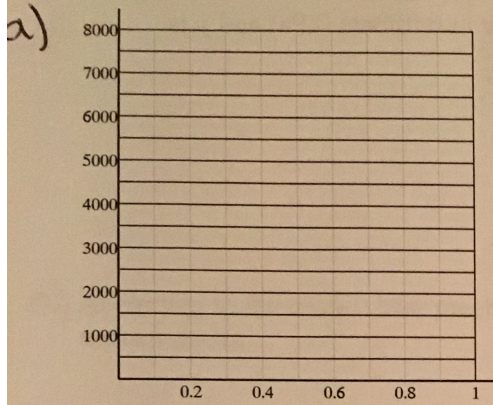
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c)



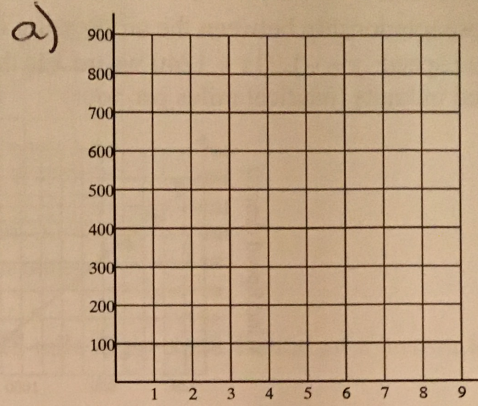
13)

X	Y	X	Y
0.67	7,000	0.45	5,000
0.81	8,000	0.18	3,000
0.08	2,000	0.48	5,000



14)

X	Y	X	Y	X	Y
5	100	9	400	5	900
2	600	3	600	5	400



c)

c)

For the given  $r$ -values below, state if the correlation is a strong positive, strong negative, weak positive, weak negative, or if the  $r$ -value is not possible.

15)  $r = -0.92$

16)  $r = -0.31$

17)  $r = 1.63$

18)  $r = 0.89$

19)  $r = -2.01$

20)  $r = 0.27$