

Name:

8-A Spreadsheet Functions

Sheet 1: Prices

	A	B	C	D	E	F
1	Item	Quantity	Price	Discount	Taxable	Total
2	markers	96	1.45	bulk	√	
3	paper	2	8.99	member	√	
4	folders	12	1.75	member	√	
5	paper clips	1	3.99		√	
6	candy	6	4.29			

Sheet 2: Discounts

	A	B
1	Type	Amount
2	bulk	10%
3	member	25%

1. Write code for F2 to calculate the total price of the 96 markers, based on the following. (Each answer includes the code from previous answers.)

- a) It is the quantity times the price.
- b) If Taxable is checked, 8.75% tax is added.
- c) If a bulk discount is stated, a 20% discount is applied.
- d) A discount (if any) is applied based on the amount stated in Sheet 2.
- e) The code can be copied down the column and still work.

2. Write code to calculate the overall total, based on the following.

- a) In F11, a total for the whole sheet.
- b) in F10, a total only of the taxable items.

3. Use data validation to ensure that entries in column D can only be types of discounts listed on Sheet 2.

- a) Write the criteria used to do this.

4. Use conditional formatting for column F so that the cell color differs based on the row total.

- a) Write what you entered to achieve this.

8-B Graphs

4. For each variable, give its level of measurement.

- a) car speed
- b) money in bank account
- c) time spent watching Netflix
- d) time of day
- e) political party
- f) letter grade
- g) class rank
- h) shoe size

5. State the type of graph appropriate for the given questions.

- a) Can number of tardies predict students' grades?
- b) How long do freshmen spend on social media per day?
- c) Can people cartwheel faster in one direction than the other?
- d) What is the average weight of 9th, 10th, 11th, and 12th grade boys?
- e) What is the gender breakdown of students receiving detention?
- f) How does Mitchell's body temperature change throughout the day?

6. Make up reasonable data for two of the questions above, and graph them on the back.