

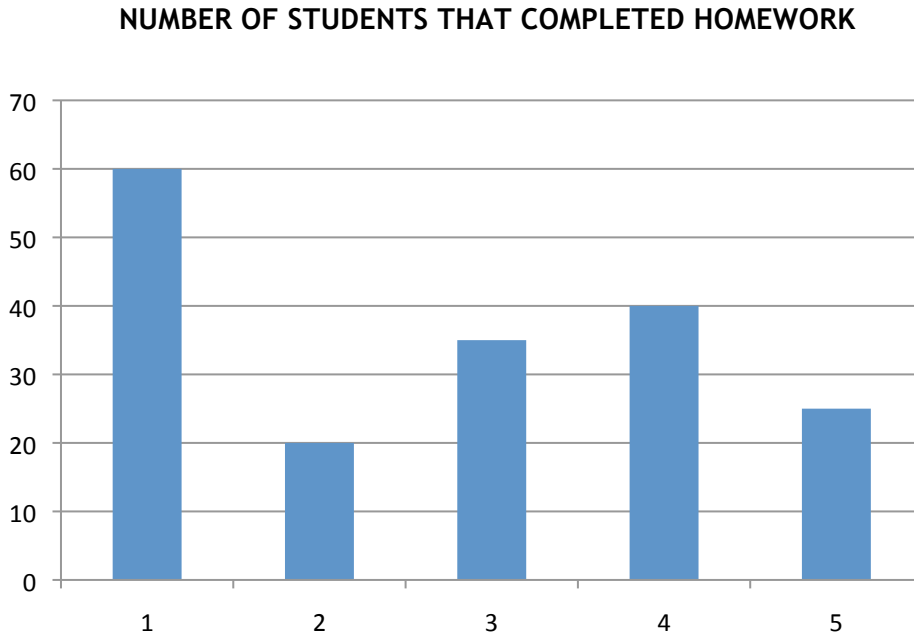
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Activity3: What's Misleading? ANSWER KEY

Directions: Study the graphs and answer the questions that follow.

- A. The number of students that completed all five math homework assignments in the first semester is shown in the bar graph below.



1. What number of students completed all of the assignments? **(180)**
2. If 20 students completed homework assignment 2 and 35 completed homework assignment 3, calculate the rate of change.

$$\frac{35 - 20}{20} \times 100 = 75\%$$

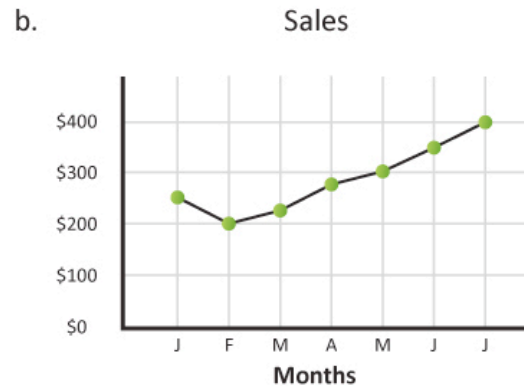
- B. John is the manager of a store selling candy. The owner of the business asked him to prepare a report on the sales from January to July. John decided to display the data graphically and came up with the following three graphs using the following data. John asked you to help him decide which graph to present to the owner as a true representation of the data. Study

Name: _____

Date: _____

all the graphs, select the one that you think John must present to the owner and explain to him why all the other graphs are misleading.

January	February	March	April	May	June	July
\$ 250	\$ 200	\$ 225	\$ 275	\$ 300	\$ 350	\$ 400



(Graph B is the least misleading presentation of the data. Graph A: Increments on the Y-axis are not equal throughout; Graph C: The amount of sales for the month of May is not graphed.)