

Name:

Date:

Math Club

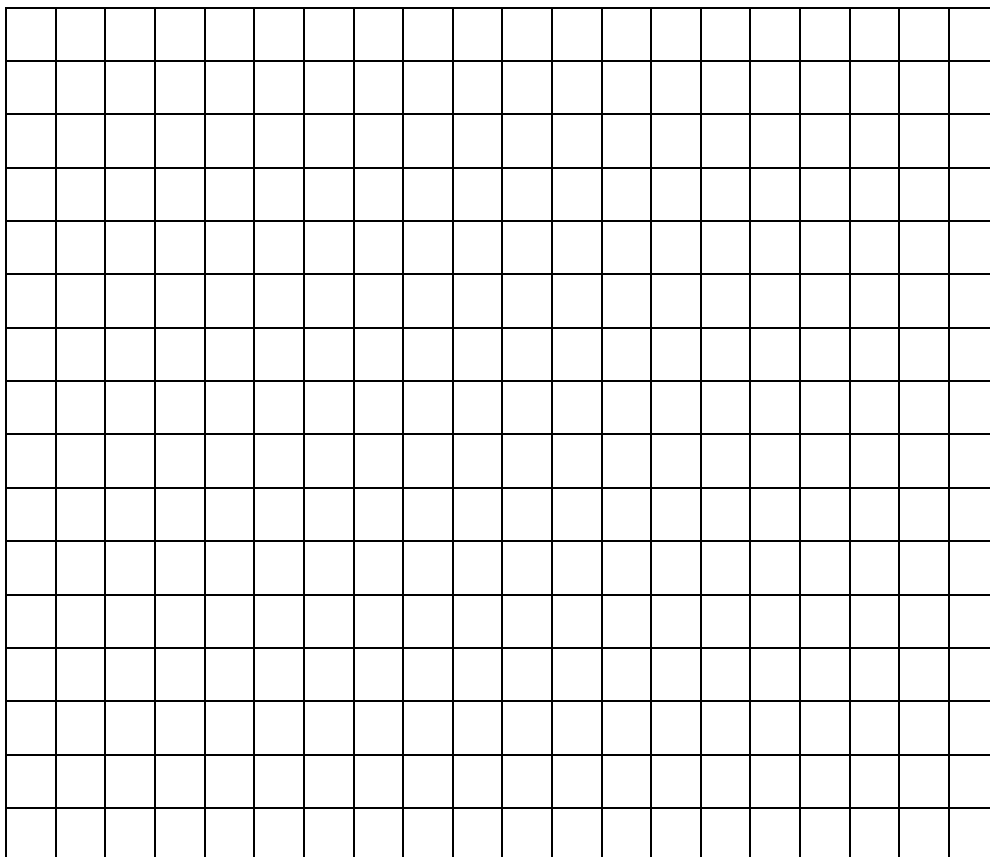
(PS03/CU02)

On-Demand (Check One) Yes No

The Brownville High School Math club is raising funds for an upcoming field trip to "Math Day" at the local college. They will be selling candy for three months (90 days). To monitor progress, the advisor checks in with several math club members on different days to see how much total money they have raised by that day. The advisor's notes are given in the chart.

Student	Anton	Robert	Alisa	Lynda	Karen	Ron	Gloria	Michelle	Bev	Karrin	Boo
Day #	3	3	4	6	6	7	9	10	11	11	15
Total Amount of \$ Raised	\$10.25	\$7.75	\$11.75	\$17.50	\$19	\$25	\$22	\$30.50	\$31.25	\$45.50	\$45

- Put the data in the table into a scatter plot. Be sure to include a title, labels for the axes, appropriate and consistent scales, and an accurate data display.



2) On the scatter plot, draw a fitted line for the data.

3) About how much total money would you expect a math club member to have raised by the 8th day? Explain how you determined this amount.

4) About how much total money would you expect a math club member to raise by the 18th day? Explain how you determined this amount.

The club advisor predicts that if the current trend continues and represents all of the club members, he can expect that each member of the math club will raise about \$350 at the end of three months (90 days). The principal of the school claims that a \$290 estimate for each member is more accurate. One of the math club members predicts each member will raise \$475.

5) Whose prediction is best supported by the data? Use data from your graph or fitted line to support your answer.
