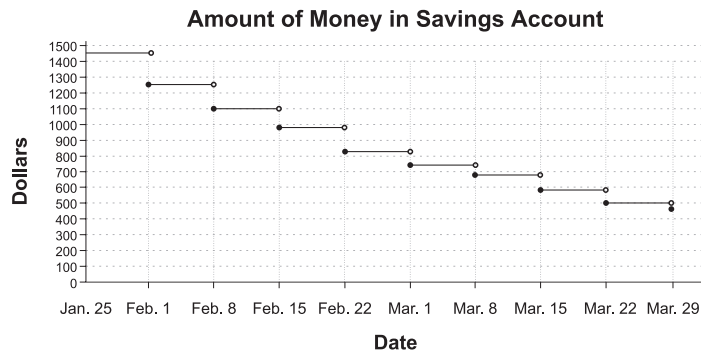


37. On January 25, the treasurer of the Sports Club opened a savings account for the club. The following graph shows the amount of money in the club's account during February and March.



Based on the information in the graph, which of the following statements is true?

- A. More than half of the money was taken out of the account during February.
- B. More than half of the money was taken out of the account during March.
- C. More money was taken out of the account each week during February than each week during March.
- D. More money was taken out of the account each week during March than each week during February.

Reporting Category/Substrand for Item 37: **Statistics and Probability/Statistics (p. 147)**

Session 3, Open-response Questions

Use the figures below to answer question 38.

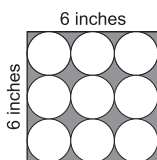


Figure A

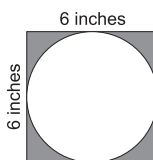


Figure B

38. Micah thinks that the shaded part of Figure A has a greater area than the shaded part of Figure B. Tonya thinks that the shaded part of Figure B has a greater area than the shaded part of Figure A.

Write a note to Micah and Tonya telling whether either of them is right. Explain in detail the calculations you made to compare the areas of the shaded parts of Figures A and B.

Reporting Category/Substrand for Item 38: **Geometry and Measurement/Geometric Measurement (pp. 146-147)**

39. Nicholas has saved \$31 to buy a \$50 jacket at Discount City. He has just seen this ad in the newspaper.

**COME TO**  
**DISCOUNT CITY**  
ON SATURDAY! 9 A.M. – 5 P.M.

**Super Sale on all Jackets!**  
Only while supply lasts!

**This is how the sale works –**

- At 9:00 A.M. every jacket will be 10% off regular price.
- Every hour from 10:00 A.M. until 3:00 P.M., every jacket will be marked down 10% from the previous hour's price.

**But don't wait TOO long. Your favorite jacket may be sold out!!**

Nicholas wonders how long he will have to wait for a chance to buy the \$50 jacket with the \$31 he has saved.

- a. Find the price of the \$50 jacket at each hour from 9:00 A.M., when the first 10% discount is applied, until he can afford the jacket. Show or describe how you found the prices.
- b. On the grid in your Student Answer Booklet, construct a graph for Nicholas showing him the price of the \$50 jacket each hour from 9:00 A.M. until he can afford the jacket. Be sure that your graph is properly labeled.

Reporting Category/Substrand for Item 39: **Statistics and Probability/Statistics (p. 147)**