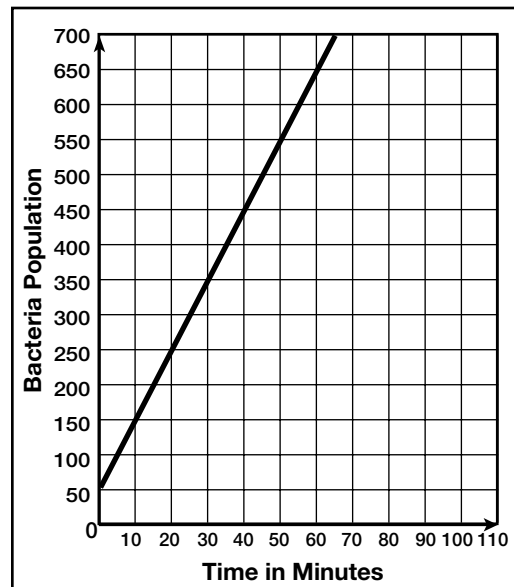


Problem-Solving Application: Use Functions and Graphs

Use the questions to help you solve.

- The graph shows the results of a laboratory test. When the experiment began, the bacteria population was 50. About how long did it take the population to reach 500?



UNDERSTAND

How would you describe what the graph shows? _____
 What information do you need to find? _____

PLAN

Which axis shows the number of bacteria? _____
 What does the other axis show? _____

SOLVE

Where do you find 500 bacteria on the line graph? _____
 What time relates to this point on the graph? _____

LOOK BACK

How do you know your answer is approximate? _____
 What could you do to find an exact answer? _____

- Make a prediction about the size of the bacteria population after 80 minutes. Explain your reasoning.
