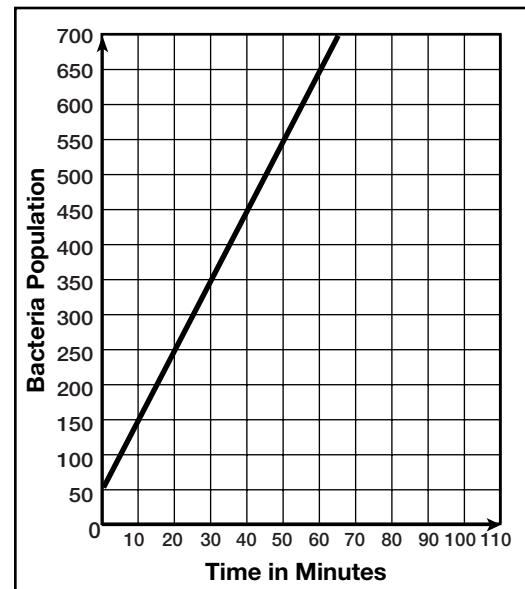


# Problem-Solving Application: Use Functions and Graphs

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.

\_\_\_\_\_