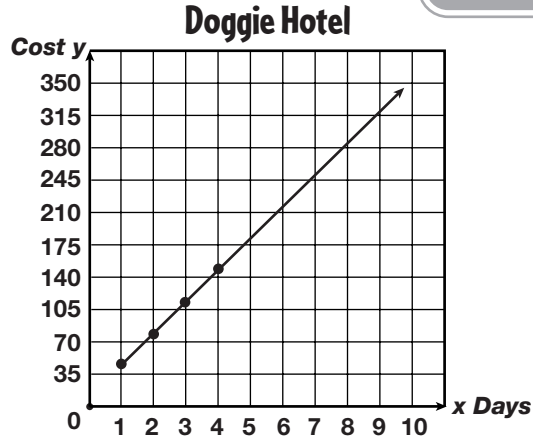


# Problem-Solving Application: Use a Graph

- This graph shows how much it costs for a dog to stay at the Doggie Hotel kennel for several days. What would it cost the Lennox family if their dog stays at the Doggie Hotel for a week?



**UNDERSTAND**

What is the question?

\_\_\_\_\_

What do you know?

\_\_\_\_\_

**PLAN**

Do you see a pattern?

\_\_\_\_\_

Let  $x$  represent the number of days and  $y$  represent the total cost in dollars. What is the function shown in the graph?

\_\_\_\_\_

**SOLVE**

Extend the graph. How much would it cost to kennel the dog for 5 days? 6 days? 7 days?

\_\_\_\_\_

**LOOK BACK**

How can you check that your answer is reasonable?

\_\_\_\_\_

**Use a graph to help solve the following problem.**

- Six months from now, the Lennox family is planning a 2-week vacation. Canine Quarters offers a 2-week rate of \$500. Is this a better deal than Doggie Hotel? Explain your answer.

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