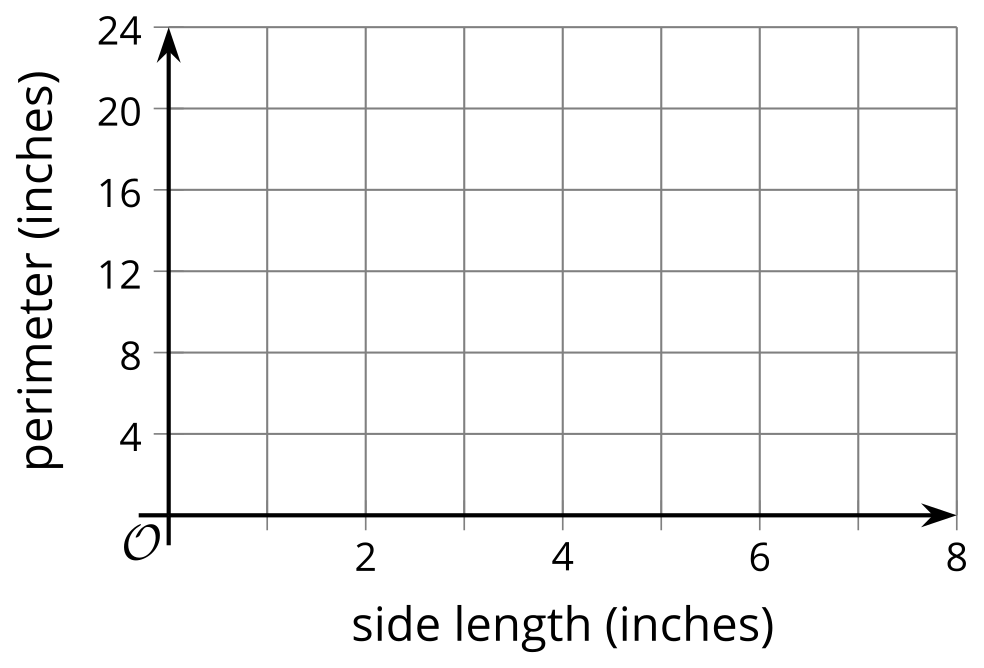
### Lesson 4 Practice Problems

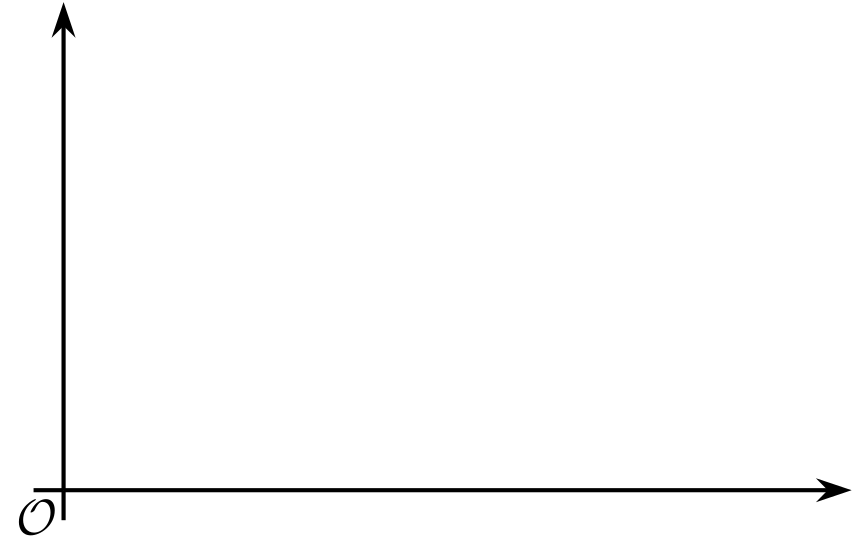
1. Match each equation with a description of the function it represents.
   1. To get the output, add 4 to the input, then multiply the result by 2.
   2. To get the output, add 2 to the input, then multiply the result by 4.
   3. To get the output, multiply the input by 2, then add 4 to the result.
   4. To get the output, multiply the input by 4, then add 2 to the result.
2. Function  represents the perimeter, in inches, of a square with side length inches.
   1. Complete the table.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | * + 0 | * + 1 | * + 2 | * + 3 | * + 4 | * + 5 | * + 6 |
|  |  |  |  |  |  |  |  |

* 1. Write an equation to represent function .
  2. Sketch a graph of function .
  + 

1. Functions and are defined by these equations.

* Which function has a greater value when is 2.5?

1. An equilateral triangle has three sides of equal length. Function gives the perimeter of an equilateral triangle of side length .
   1. Find
   2. Find
   3. Find
2. Imagine a situation where a person is using a garden hose to fill a child's pool. Think of two quantities that are related in this situation and that can be seen as a function.
   1. Define the function using a statement of the form “ is a function of . Be sure to consider the units of measurement.
   2. Sketch a possible graph of the function. Be sure to label the axes.
   * Then, identify the coordinates of one point on the graph and explain its meaning.
   * 

* (From Unit 4, Lesson 1.)

1. Function gives the cost, in dollars, of buying apples.

* Which statement best represents the meaning of ?
  1. The cost of buying 9 apples
  2. The cost of 9 apples is $10.
  3. The cost of 10 apples
  4. Ten apples cost $9.
* (From Unit 4, Lesson 2.)

1. Diego is baking cookies for a fundraiser. He opens a 5-pound bag of flour and uses 1.5 pounds of flour to bake the cookies.

* Which equation or inequality represents , the amount of flour left in the bag after Diego bakes the cookies?
* (From Unit 2, Lesson 18.)



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