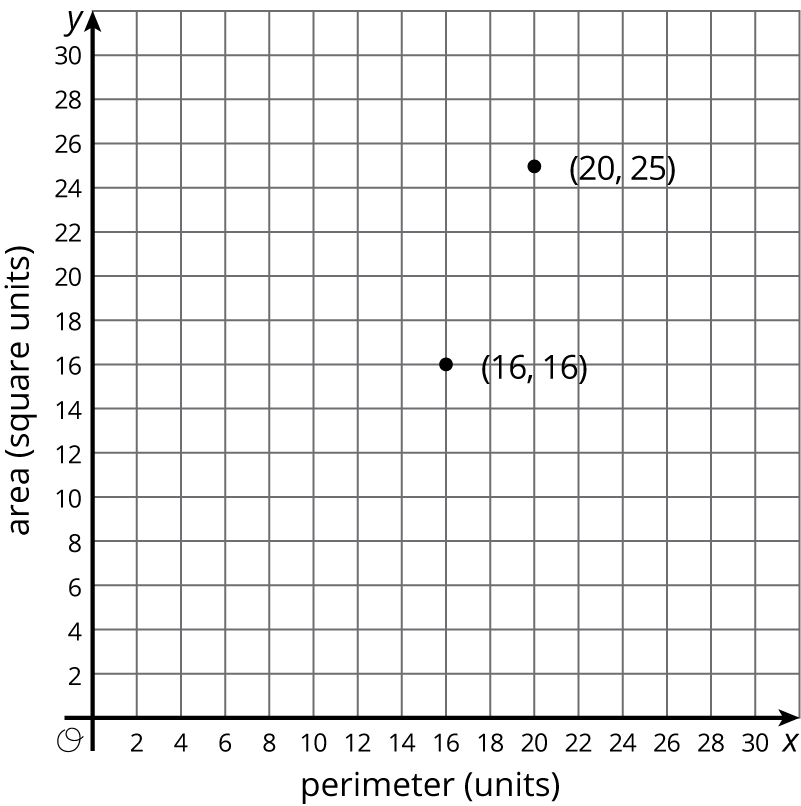
### Lesson 9 Practice Problems

1. A vending machine has 5 colors (white, red, green, blue, and yellow) of gumballs and an equal chance of dispensing each. A second machine has 4 different animal-shaped rubber bands (lion, elephant, horse, and alligator) and an equal chance of dispensing each. If you buy one item from each machine, what is the probability of getting a yellow gumball and a lion band?
2. The numbers 1 through 10 are put in one bag. The numbers 5 through 14 are put in another bag. When you pick one number from each bag, what is the probability you get the same number?
3. When rolling 3 standard number cubes, the probability of getting all three numbers to match is . What is the probability that the three numbers *do not* all match? Explain your reasoning.
4. For each event, write the sample space and tell how many outcomes there are.
   1. Roll a standard number cube. Then flip a quarter.
   2. Select a month. Then select 2020 or 2025.

* (From Unit 8, Lesson 8.)

1. On a graph of the area of a square vs. its perimeter, a few points are plotted.

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  1. Add some more ordered pairs to the graph.
  2. Is there a proportional relationship between the area and perimeter of a square? Explain how you know.
* (From Unit 2, Lesson 11.)



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