

Problem Solving Test Prep

Choose the correct answer.

- 1 The population of a large city is 1,593,482. What will the population be when there are 10,000 more people?
- A. 1,693,482
 - B. 1,613,482
 - C. 1,603,482
 - D. 1,594,482

- 2 Diagonals drawn from the same vertex cut a polygon into triangles. How many triangles can be made this way from a 20-sided polygon?

5 sides



6 sides



7 sides

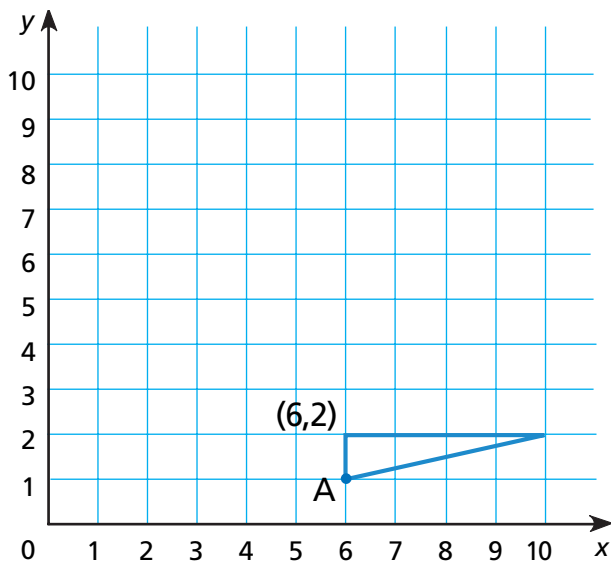


- A. 15
- B. 16
- C. 17
- D. 18

Show What You Know

Solve each problem. Explain your answer.

- 3 Draw the results of rotating the triangle 90° counterclockwise around the point $(6,2)$. Then translate the result 5 units left. What are the coordinates of Point A in the final image?



- 4 William is making packages of pens and pencils for the school store. He has 48 pens and 60 pencils. Each package will have the same number of items and will have either pens or pencils, but never both.

- A In how many different ways can he make the packages?

- B If he puts the largest number of pens or pencils in each package, how many packages will he have made in all? Explain.
