

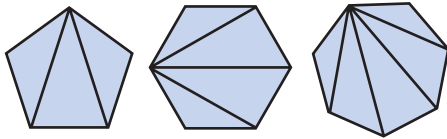
# Problem Solving Test Prep

Choose the correct answer.

1 Colleen's plant is  $3\frac{1}{2}$  inches tall. It grows an average of  $2\frac{1}{2}$  inches per week. How tall is it after 5 weeks?

- A. 17 inches      C.  $15\frac{1}{2}$  inches  
 B. 16 inches      D.  $14\frac{1}{2}$  inches

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



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

3 A photograph is  $\frac{5}{6}$  foot wide and  $\frac{1}{2}$  foot high. How much greater is the photograph's width than its height?

- A. 3 inches              C. 5 inches  
 B. 4 inches              D. 6 inches

4 Which relationship is shown by the data in the table?

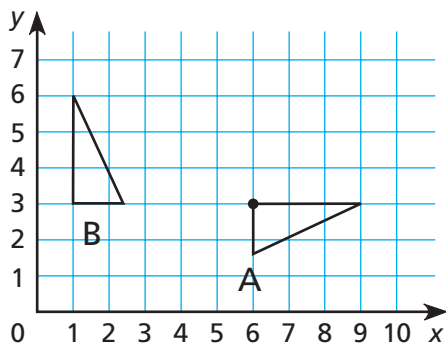
$x$	3	5	7	8	14
$y$	5	9	13	15	27

- A.  $y = x + 3$   
 B.  $y = x + 4$   
 C.  $y = 2x - 1$   
 D.  $y = 2x + 1$

## Show What You Know

Solve each problem. Explain your answer.

5 Use the grid. Draw the result of rotating triangle A  $90^\circ$  counterclockwise around the dot. Then explain how you could show that the image of triangle A is congruent to triangle B.




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6 Pedro 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. Each package will have only pens or only pencils. In how many different ways can he make the packages? If Pedro puts the greatest number of pens and pencils in each package, how many packages can he make in all?

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