



Name \_\_\_\_\_ Date \_\_\_\_\_

# Problem Solving: Patterns in the Coordinate Grid

CA Standards  
MR 1.1, MG 3.0

Use the pattern below to solve problems 1–3.

1. What are the coordinates of the vertices of the fourth triangle in the pattern?

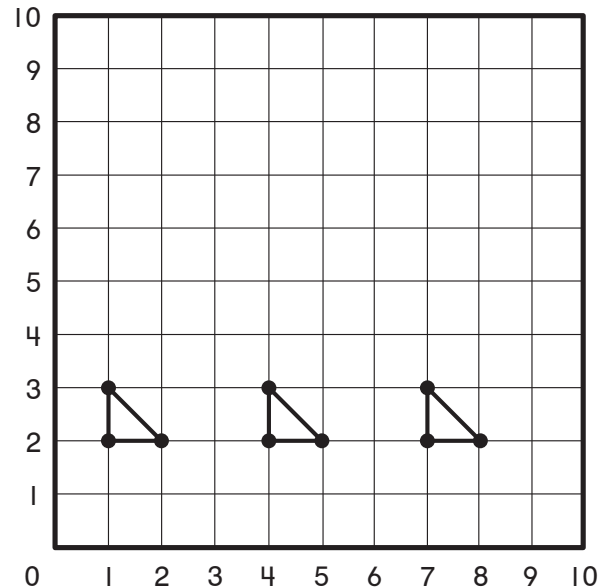
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2. What are the coordinates of the vertices of the fifth triangle in the pattern?

\_\_\_\_\_

3. Daryl continued the pattern until he got a triangle with vertices  $(22, 2)$ ,  $(22, 3)$ ,  $(23, 2)$ . How many triangles did he draw before getting this triangle?

\_\_\_\_\_  
\_\_\_\_\_



Use the pattern below to solve problems 4–6.

4. What is the pattern?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. How many rectangles were drawn to obtain the coordinates  $(27, 9)$ ,  $(27, 12)$ ,  $(30, 9)$ ,  $(30, 12)$ ?

\_\_\_\_\_

6. What are the coordinates of the 17<sup>th</sup> rectangle in the sequence?

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\_\_\_\_\_

