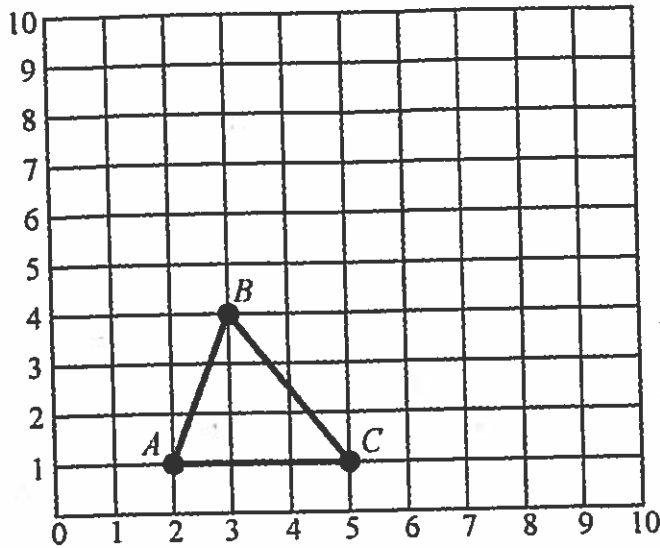


Name: \_\_\_\_\_

### PRACTICE EXERCISES

1. A triangle has vertices at  $A(2, 1)$ ,  $B(3, 4)$  and  $C(5, 1)$ . One vertex of a slide image is  $A(7, 6)$ . What is the slide rule?



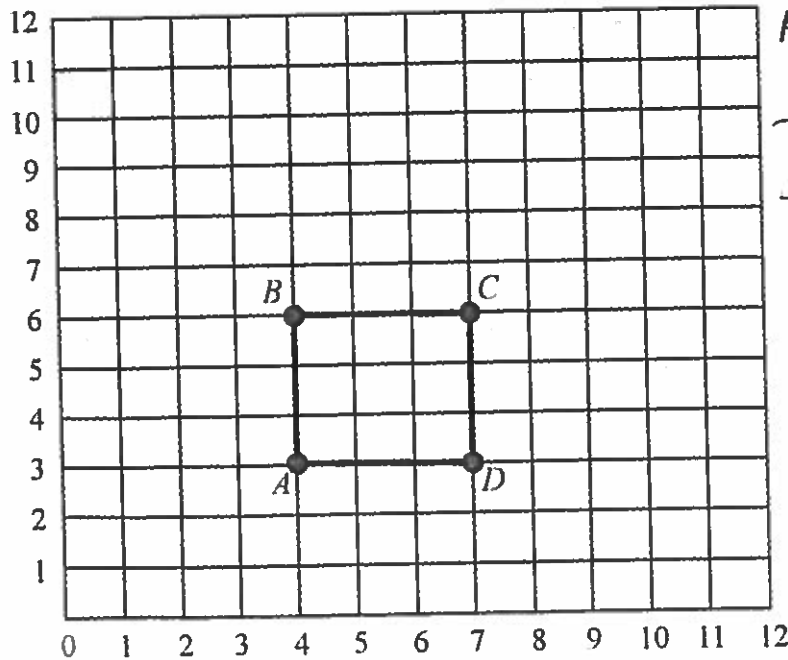
Answer:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

2. A square has vertices  $A(4, 3)$ ,  $B(4, 6)$ ,  $C(7, 6)$ , and  $D(7, 3)$ . One vertex of the slide image is  $A(8, 6)$ . Draw the slide image. How did it move?



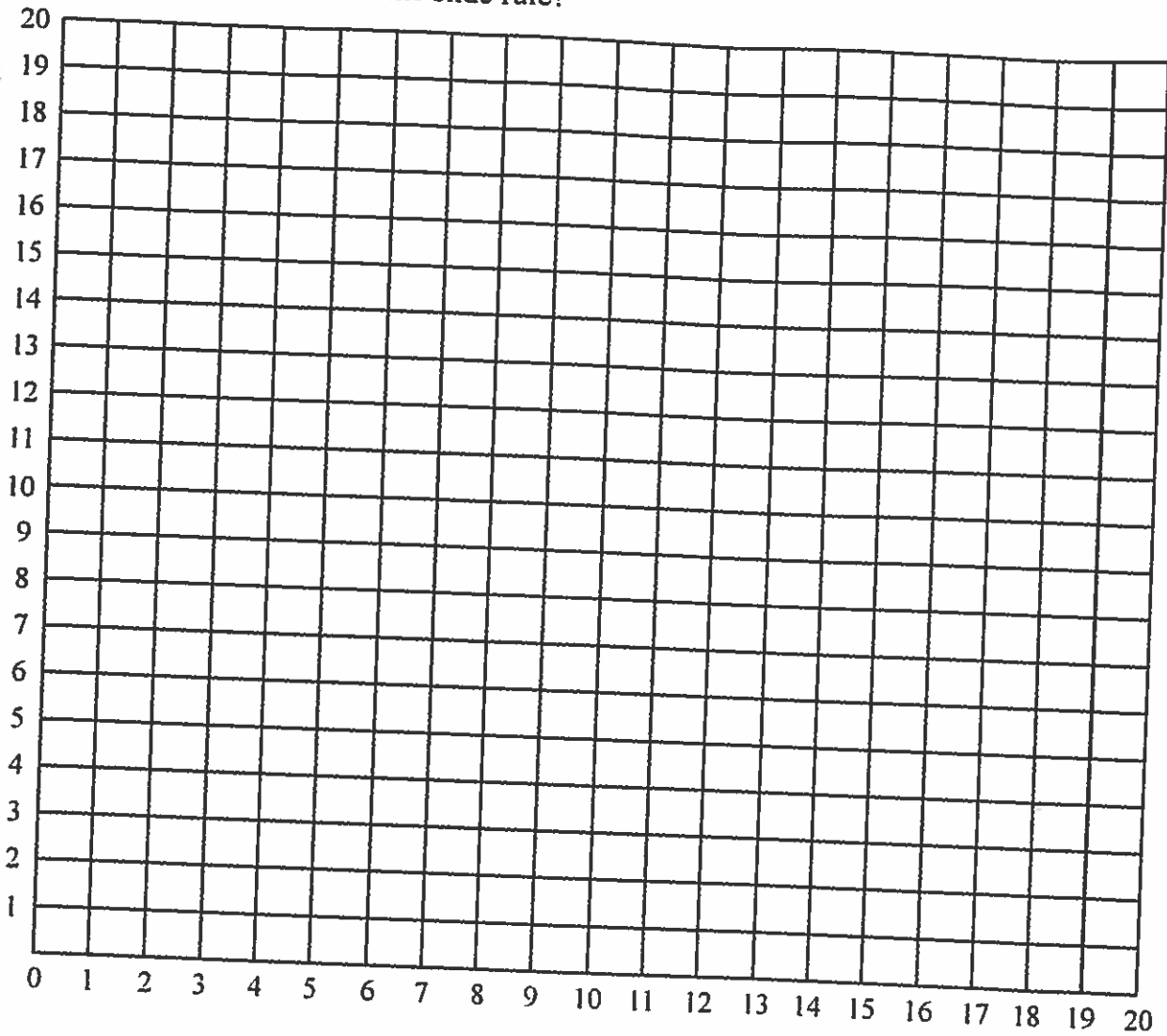
Answer:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3. A rectangle has vertices at  $A(2, 2)$ ,  $B(2, 6)$ ,  $C(9, 6)$ , and  $D(9, 2)$ . A second rectangle has vertices at  $A(13, 6)$ ,  $B(13, 10)$ ,  $C(20, 10)$ , and  $D(20, 6)$ . Plot the two rectangles on the grid below. What is the slide rule?

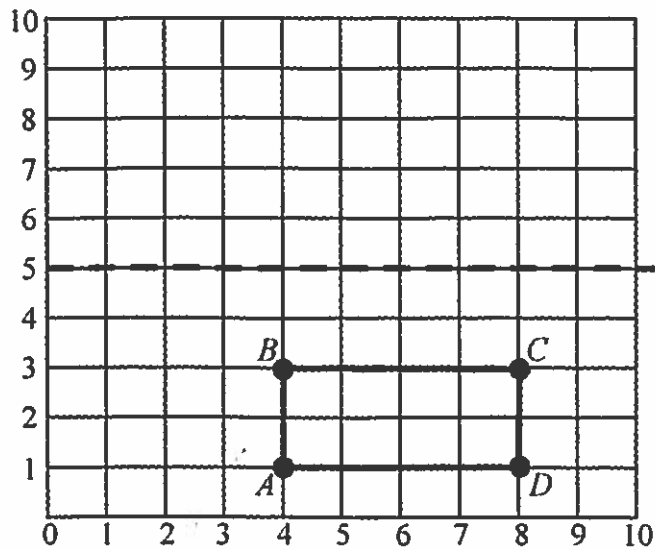


Slide rule (how it moved) :

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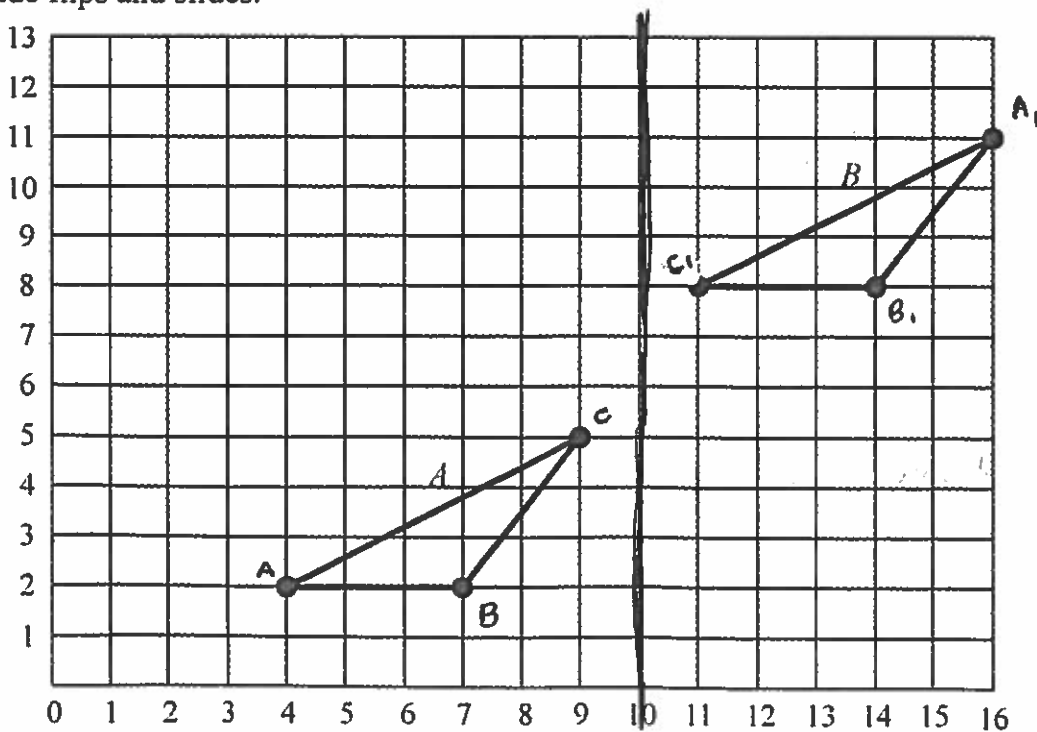
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4. Sketch the mirror image of the polygon below. Label the new vertices as  $A_1$ ,  $B_1$ ,  $C_1$ , and  $D_1$ . Write the ordered pairs for the vertices of the mirror image.



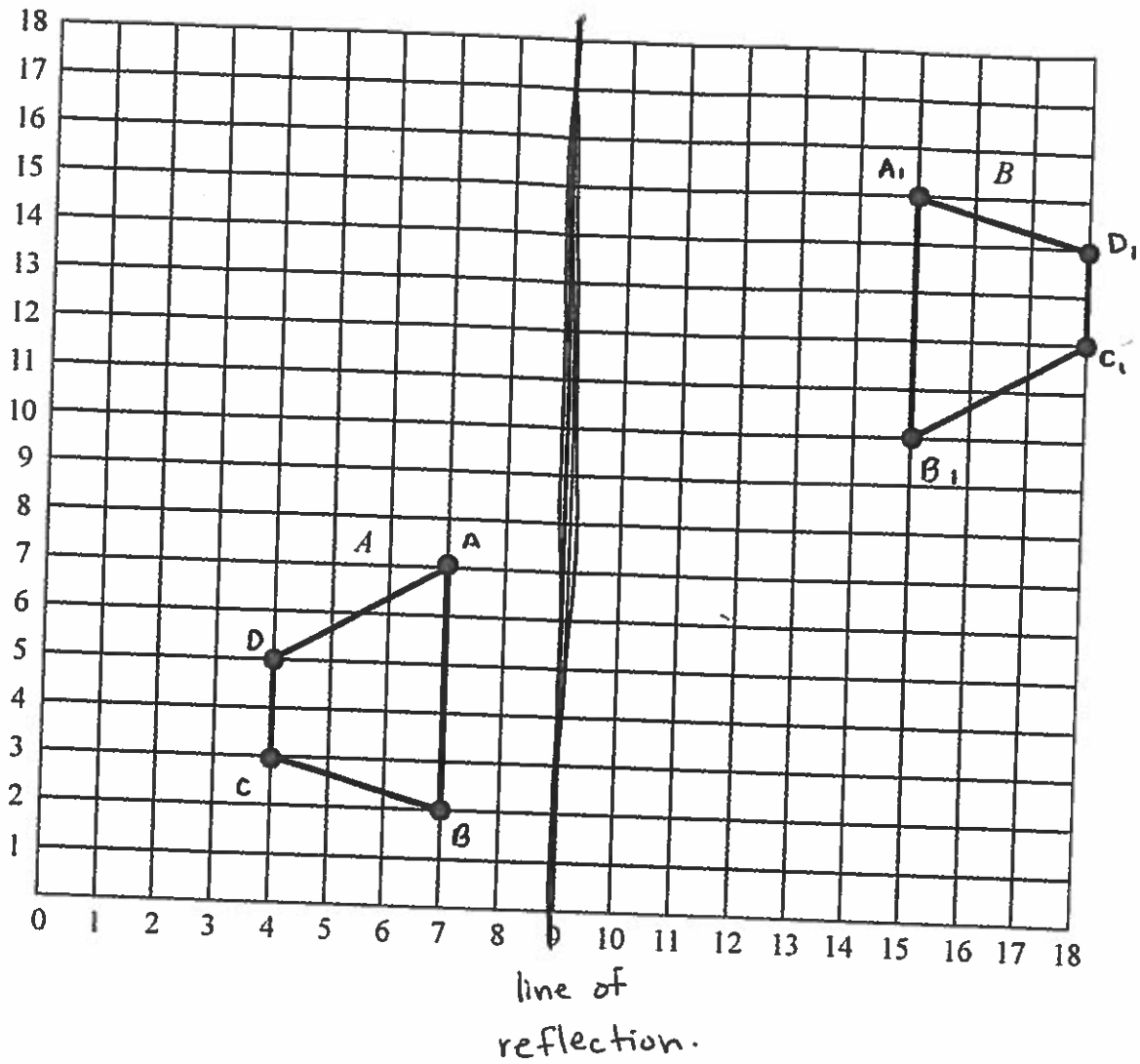
$A_1 : ( \quad , \quad )$                        $C_1 : ( \quad , \quad )$   
 $B_1 : ( \quad , \quad )$                        $D_1 : ( \quad , \quad )$

5. Describe the movement of the triangle from position  $A$  to position  $B$ . Movements include flips and slides.



Answer: \_\_\_\_\_

6. Describe the movement of the polygon from position  $A$  to position  $B$ . Movements include flips and slides.



Answer:

\_\_\_\_\_

\_\_\_\_\_