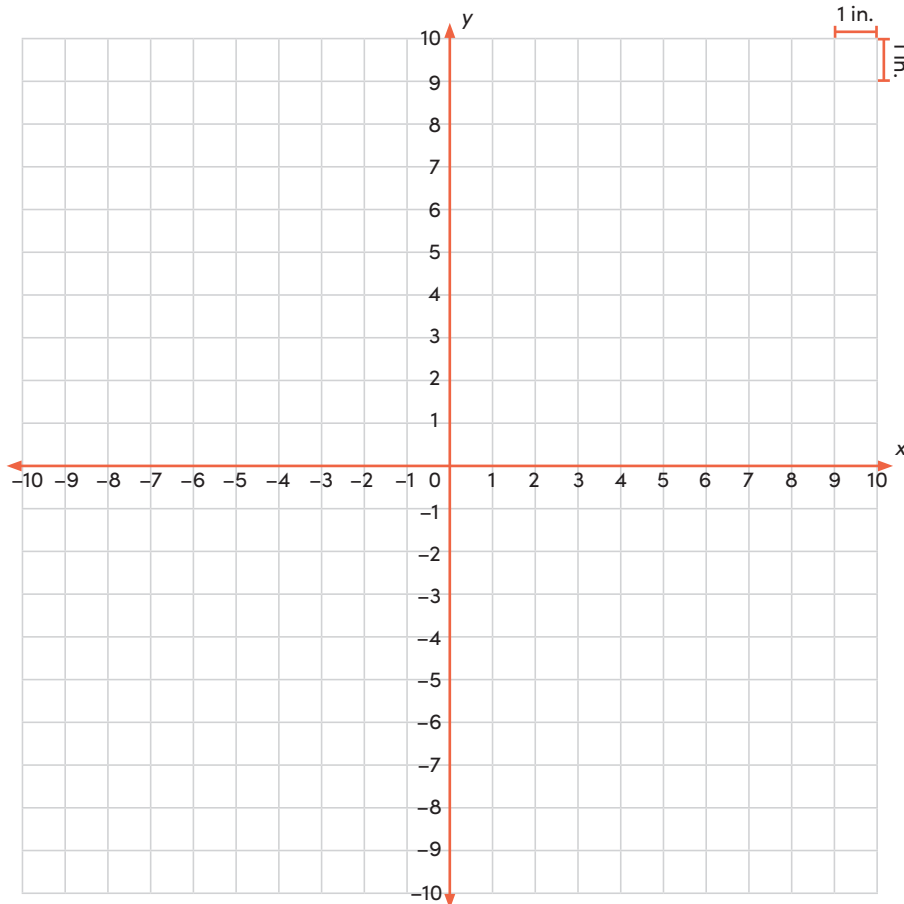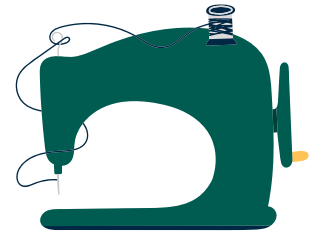**PERFORMANCE TASK** 🗺

Quilting Coordinates:
Coordinate Plane Performance Task

Jameson is planning his next quilting project. He's using a coordinate plane to design a section of the quilt. Each square on the coordinate plane represents 1 square inch on Jameson's quilt. Follow the directions below to help Jameson plan his design.

1 in.
1 in.

1 Jameson wants to add shapes to his design. Add the following shapes to the coordinate plane:

- A square with vertices at (4, 6), (7, 6), (4, 9), and (7, 9)
- A triangle with vertices at (−3, 4), (3, 4), and (−2, 9)
- A rectangle with vertices at (−8, 3), (−7, 3), (−8, −7), and (−7, −7)
- A trapezoid with vertices at (−4, −6), (−2, −9), (2, −9), and (4, −6)

PERFORMANCE TASK 🗺

Quilting Coordinates:
Coordinate Plane Performance Task

Keep going! Follow the directions below to help Jameson plan his design.

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2 Jameson wants to add another rectangle to this section of the quilt. He wants the rectangle to have two side lengths of 2 inches and two side lengths of 5 inches. On the coordinate plane on page 1, find a place for the rectangle that does not overlap with any other shape and plot it. Then write the ordered pairs of the rectangle's vertices.

(_____ , _____), (_____ , _____), (_____ , _____), and (_____ , _____)

3 He also wants to add another triangle to the quilt. He wants the triangle to have a base of 3 inches and a height of 6 inches. Find a place for the triangle that does not overlap with any other shape and plot it on the coordinate plane. Then write the ordered pairs of the triangle's vertices.

(_____ , _____), (_____ , _____), and (_____ , _____)

4 He also wants to add another square to the quilt. He wants the square to have side lengths of 4 inches. Find a place for the square that does not overlap with any other shape and plot it on the coordinate plane. Then write the ordered pairs of the square's vertices.

(_____ , _____), (_____ , _____), (_____ , _____), and (_____ , _____)

5 Jameson plans to use red fabric for the two squares. Determine how much red fabric he will need in all.

_____ square inches

6 He plans to use yellow fabric for the two triangles and the trapezoid. Determine how much yellow fabric he will need in all.

_____ square inches