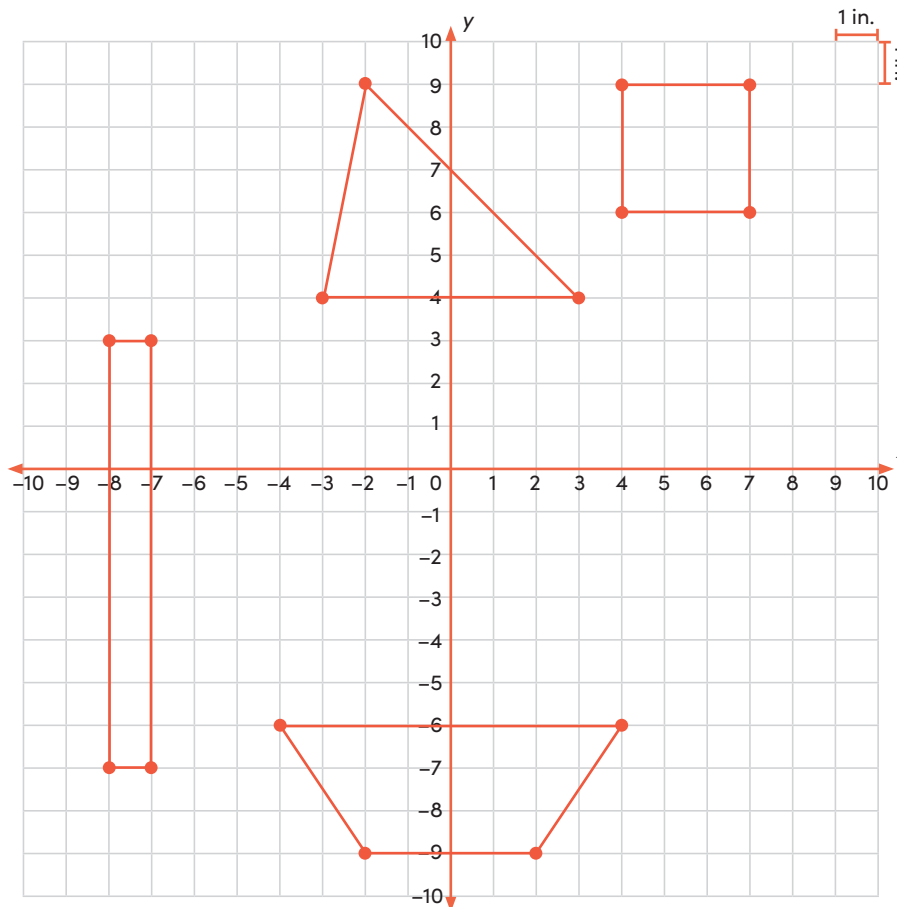
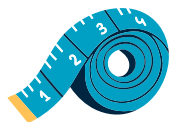
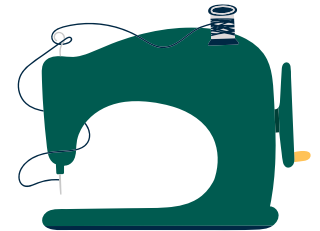


PERFORMANCE TASK 

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.



Students will draw 3 additional shapes on this coordinate plane, based on questions on page 2. The placement of those shapes will vary.



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.

- 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.

Answers will vary.

(____, ____), (____, ____), (____, ____), 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.

Answers will vary.

(____, ____), (____, ____), 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.

Answers will vary.

(____, ____), (____, ____), (____, ____), and (____, ____)

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

_____ **25** 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.

_____ **42** square inches