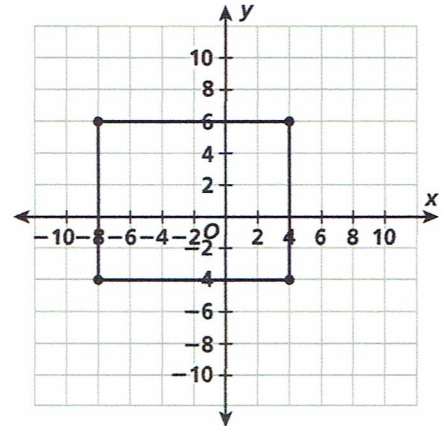


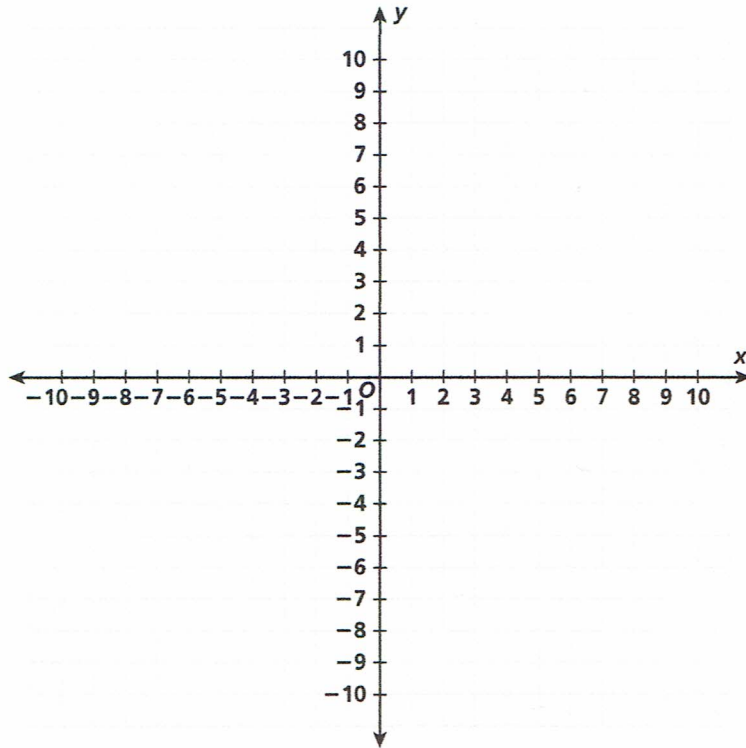
LESSON **Integers and the Coordinate Plane**

4 **Challenge: Polygons in the Coordinate Plane**

Charis is planning to have a new deck built on the back of her house. The coordinate plane shows plans for the deck in feet.



The builder that Charis hired thought there might be a better design for the deck with the same perimeter. Use the grid to draw 3 different rectangular decks with the same perimeter as Charis' original design.



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If the builder charges Charis per square foot, which design will cost Charis the least to build? Explain your answer.