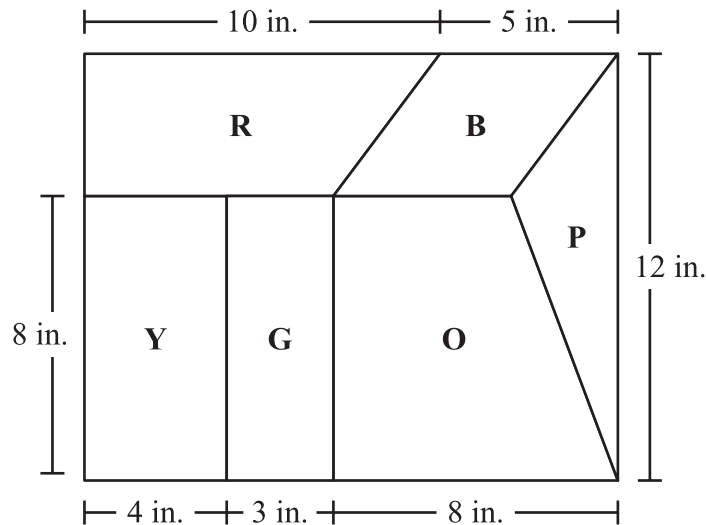


Questions 20 and 21 are open-response questions.

- **BE SURE TO ANSWER AND LABEL ALL PARTS OF EACH QUESTION.**
- **Show all your work (diagrams, tables, or computations) in your Student Answer Booklet.**
- **If you do the work in your head, explain in writing how you did the work.**

Write your answer to question 20 in the space provided in your Student Answer Booklet.

- 20 A puzzle in the shape of a rectangle has six pieces. The puzzle and some of its dimensions are shown in the diagram below.



- a. What is the perimeter, in inches, of the puzzle? Show or explain how you got your answer.

The shape of each piece of the puzzle is listed below.

- Pieces **R** and **O** are trapezoids.
 - Pieces **Y** and **G** are rectangles.
 - Piece **B** is a parallelogram.
 - Piece **P** is a triangle.
- b. What is the area, in square inches, of piece **B**? Show or explain how you got your answer.
- c. What is the area, in square inches, of piece **R**? Show or explain how you got your answer.
- d. What is the area, in square inches, of piece **P**? Show or explain how you got your answer.