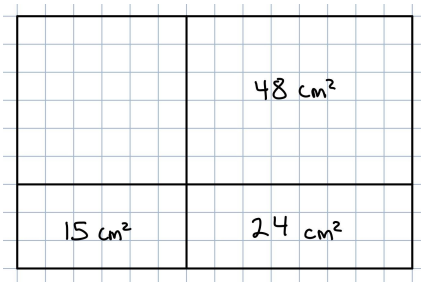
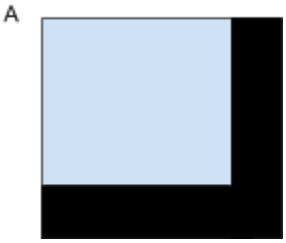
1. Aaron has a rectangular sheet of paper that is 10 inches by 6 inches. He folds it in half twice, first horizontally then vertically. The new rectangle looks similar to the first rectangle but smaller. What is the area of the new rectangle in sq. cm.?

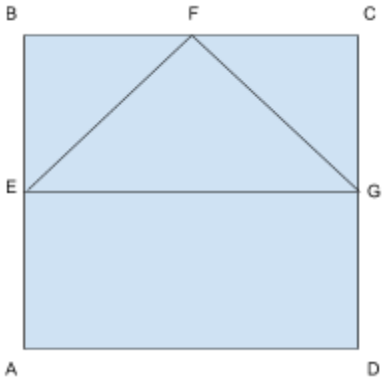
2. Rectangle *WXYZ* is split into four smaller rectangles as shown below. Each side of each rectangle is a whole number of centimeters. The areas of three of the small rectangles are shown. What is the area of rectangle *WXYZ*, in square centimeters?



3. In the figure shown, two squares share corner A. The larger square has an area of 81 cm^2. The smaller square has an area of 49 cm^2. What is the perimeter of the shaded region, in cm?



4. ABCD is a rectangle with an area equal to 72 square units. Points E, F, and G are midpoints of the sides on which they are located. How many square units are there in the area of the triangle EFG?



5. The figure consists of two squares. The length of each side is a whole number of centimeters. The combined area of the squares is 113 sq. cm. What is the perimeter of the entire figure?