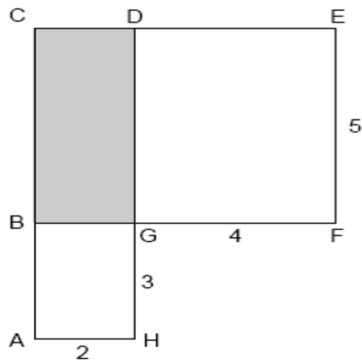


Section 7-6: Areas of Irregular Polygons

1. 069916a, P.I. A.G.1

In the accompanying figure, $ACDH$ and $BCEF$ are rectangles, $AH = 2$, $GH = 3$, $GF = 4$, and $FE = 5$.

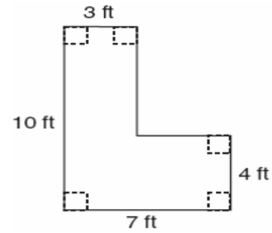


What is the area of $BCDG$?

- [A] 20 [B] 10 [C] 6 [D] 8

2. 060132a, P.I. A.G.1

Keesha wants to tile the floor shown in the accompanying diagram. If each tile measures 1 foot by 1 foot and costs \$2.99, what will be the total cost, including an 8% sales tax, for tiling the floor?



3. 010330b

A picnic table in the shape of a regular octagon is shown in the accompanying diagram. If the length of \overline{AE} is 6 feet, find the length of one side of the table to the nearest tenth of a foot, and find the area of the table's surface to the nearest tenth of a square foot.

