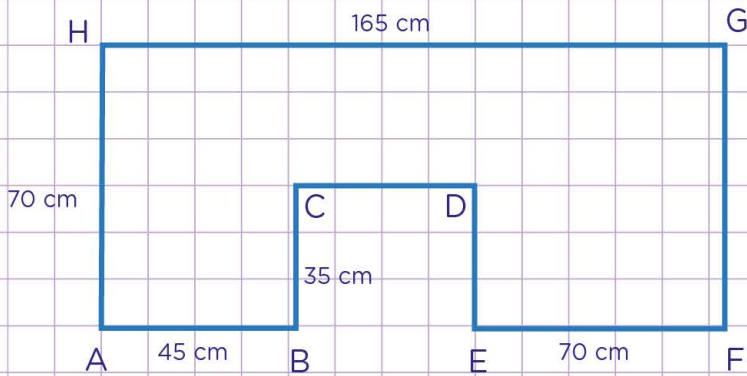


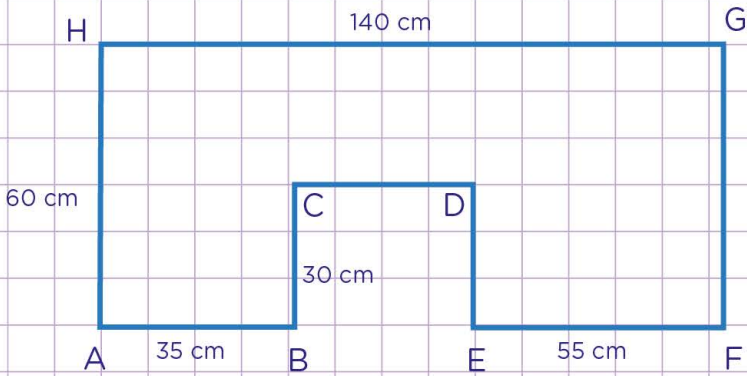
Name: Class:

Area of compound figures.

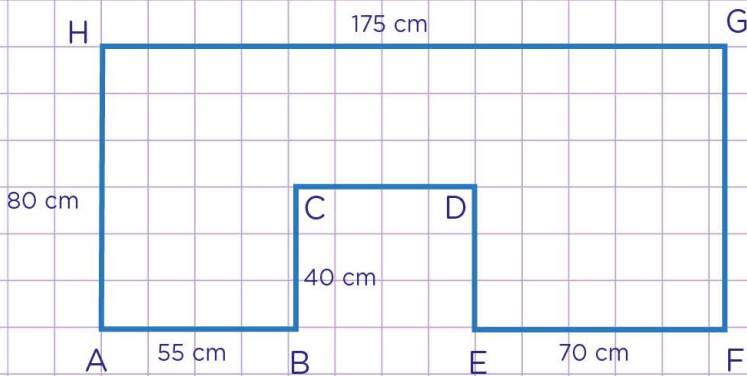
1. What is the area of this figure?



2. What is the area of this figure?



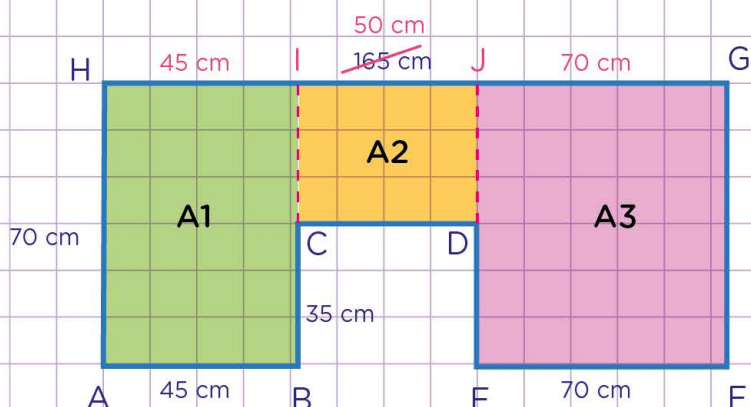
3. What is the area of this figure?



Name: Class:

Area of compound figures.

1. What is the area of this figure?

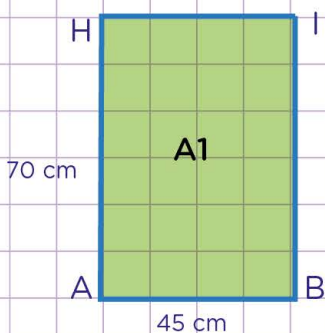


Let's divide the figure into separate rectangles and find the area of each rectangle. The table below shows the different shapes and their corresponding areas.

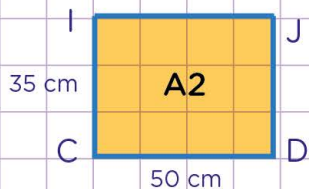
Shapes	Areas
rectangle 1 = ABIH	area 1 = A1
rectangle 2 = CDJI	area 2 = A2
rectangle 3 = EFGJ	area 3 = A3

Before we go any further, let's find the distance IJ.

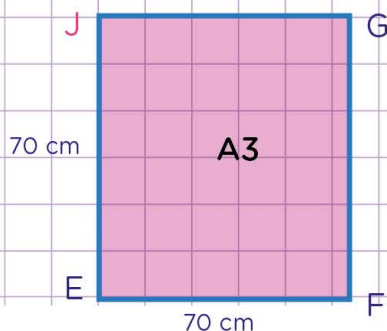
Notice that, $IJ = CD$. And, $165 \text{ cm} = HG = AF = AB + CD + EF$. So, $CD = 165 - (AB + EF) = 50 \text{ cm}$



Remember that the formula is **Area = length x width**.
So, we will be using this formula throughout the exercise.
To solve A1.
 $A1 = AH \times AB$
 $= 70 \times 45$
 $= 3,150 \text{ cm}^2$



Next, we solve A2.
 $A2 = CI \times CD$
 $= 35 \times 50$
 $= 1,750 \text{ cm}^2$



Finally, we solve A3.
 $A3 = EJ \times EF$
 $= 70 \times 70$
 $= 4,900 \text{ cm}^2$

Now, we add all the areas to have the area of the compound figure. $3,150 + 1,750 + 4,900 = 9,800 \text{ cm}^2$

So the area is 9,800 cm²