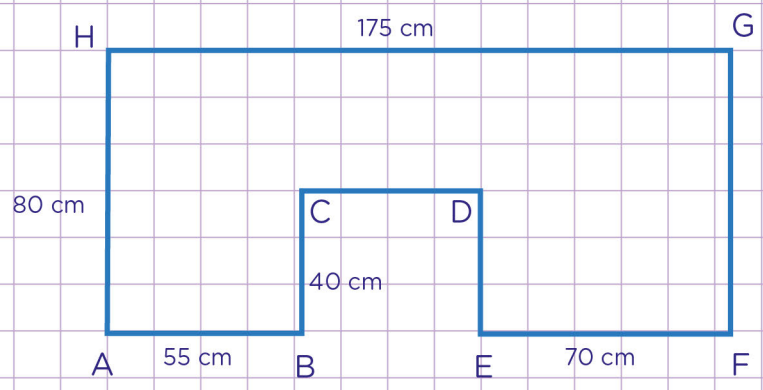
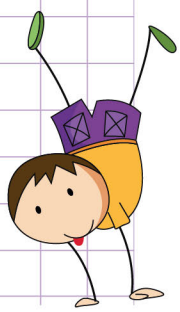
Name: ..... Class: .....

Area of compound figures.

1. What is the area of this figure?





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Solution

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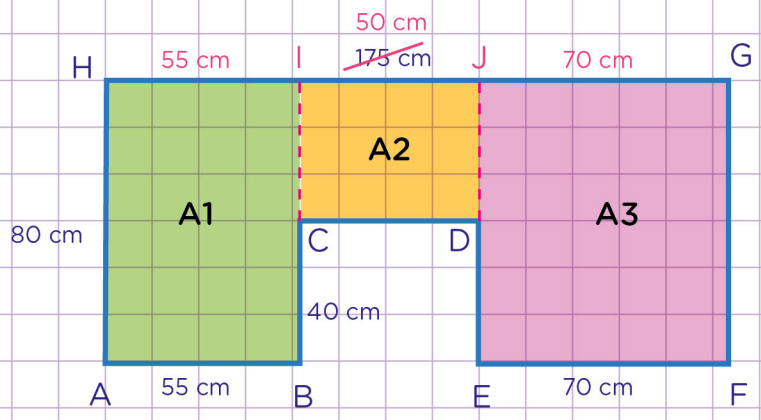
Name: ..... Class: .....

Area of compound figures.

1. What is the area of this figure?

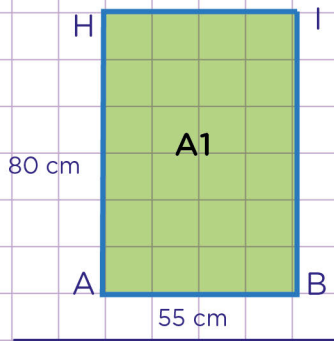


Let's divide the figure into seperate rectangles and find the area of each rectangle. The table below shows the different shapes and their corresponding areas.

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, **175 cm = HG = AF = AB + CD + EF** . So, **CD = 175 - (AB + EF) = 50 cm**



Remainber that the formula is **Area = length x width**

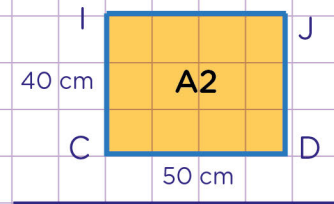
So, we will be using this formula throughout the exercise.

To solve A1.

A1 = AH x AB

= 80 x 55

= 4,400 cm²

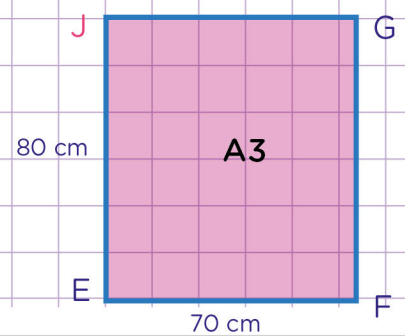


Next, we solve A2.

A2 = CI x CD

= 40 x 50

= 2,000 cm²



Finally, we solve A3.

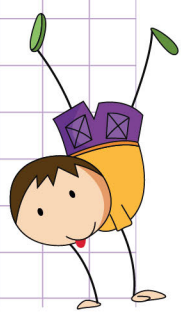
A3 = EJ x EF

= 80 x 70

= 5,600 cm²

Now, we add all the areas to have the area of the compound figure. **4,400 + 2,000 + 5,600 = 12,000 cm²**

So the area is **12,000 cm²**



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