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# Answers

## Step 1: The street art museum

First, remove door n°4, then n°5 and 7, then 1 and 3, then 8 and finally 6: the door you were looking for was door n°2 !

## Step 2: The mural



Comparing the size of the two green lines (which represent the diameter of the circle and the radius of the impact zone), we see that the impact zone has a radius 10 times the size of the circle. The diameter of the impact zone is  $2 \times 10 = 20$  meters.

## Step 3: A homage to a textile city

Pay close attention to revert the letters of "Hôtel de ville" on the main entrance!



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## Step 4: An oasis in the city

Except for the  $270^\circ$  angle, you cannot reach the end of the other two since they would lead you into the grass – which you must avoid in botanical gardens. This architecture is typical of French gardens, like the Versailles one.

## Step 5: The fine arts museum

There are 10 rectangular windows and 5 circular ones in total. The height of the windows is approximately 3,8m. If you want, you can use this result to teach your pupils about Pythagoras' theorem. The perimeter of one of the circular windows is 1,57m. Its area is  $0,19625\text{m}^2$  (rounded up to  $0,2\text{m}^2$ ).

## Step 6: The IMA

The scale is defined by length divided by height: the rectangles are not on the same scale. All the half-circles are on the same scale.

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