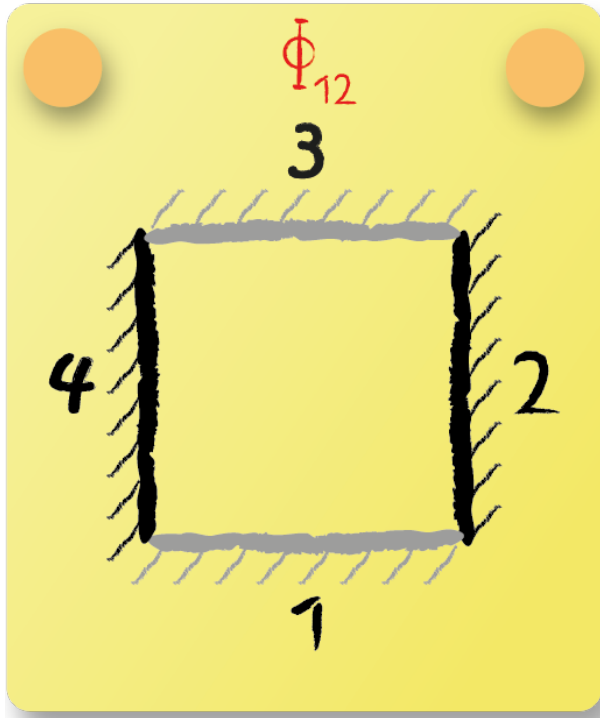




## View Factor: Task 17



The image shows a square body.  
What is  $\phi_{12}$ ?

1



$$\phi_{12} = 1 - 1/\sqrt{2}$$

2



If we think of this square here as two equal right triangles with imaginary dashed diagonal line, the length that divided the square from edges is multiples of  $\sqrt{2}$ , and the radiation leaving this length hits to surface 1 and 4 equally that means it is  $1/2$ . Reciprocity and enclosure rule for right triangle can be applied.