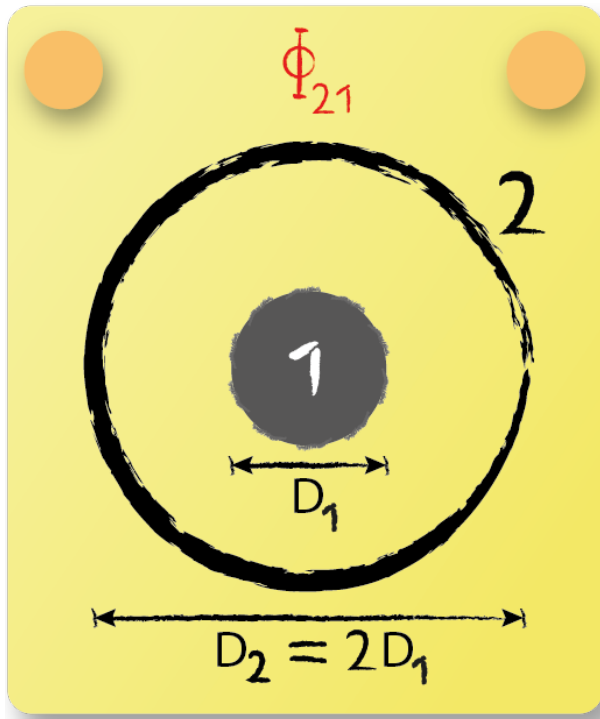


## View Factor: Task 3



The image shows two circular bodies. The body 1 is completely inside of body 2. Diameter of body 1 is half of diameter of body 2. What is  $\phi_{21}$ ?

1



$$\phi_{21} = 1/2$$

2



According to the reciprocity rule, the equation is  $\phi_{2,1} = (A_1/A_2) \cdot (\phi_{1,2})$  and if the circular body area is considered, the equation becomes  $\phi_{2,1} = (\Pi \cdot (D_1)^2)/(\Pi \cdot (2D_1)^2)$ . Also,  $\phi_{1,2}$  is known as 1.