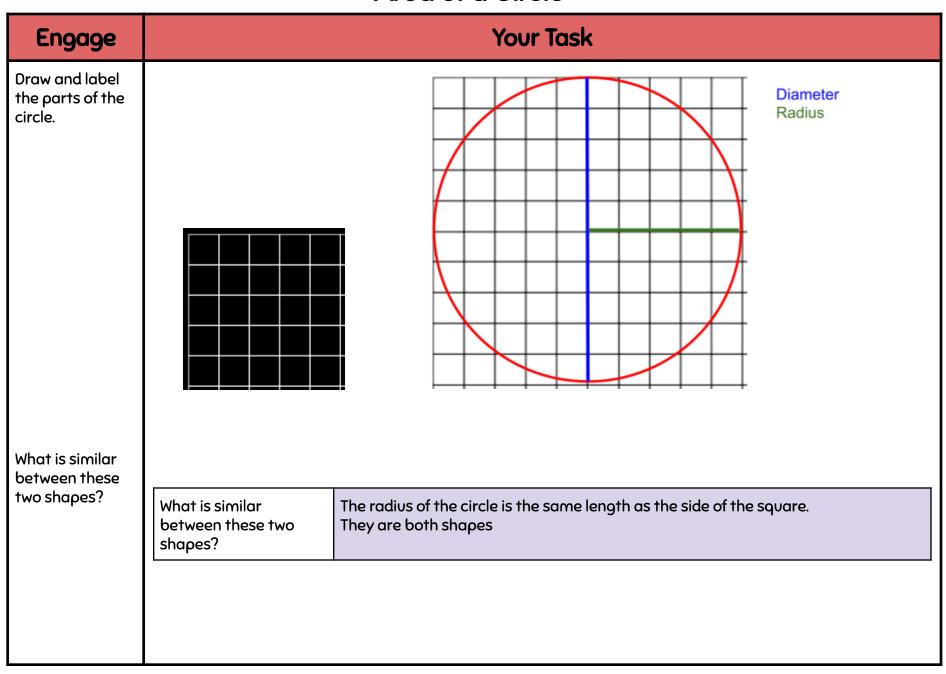
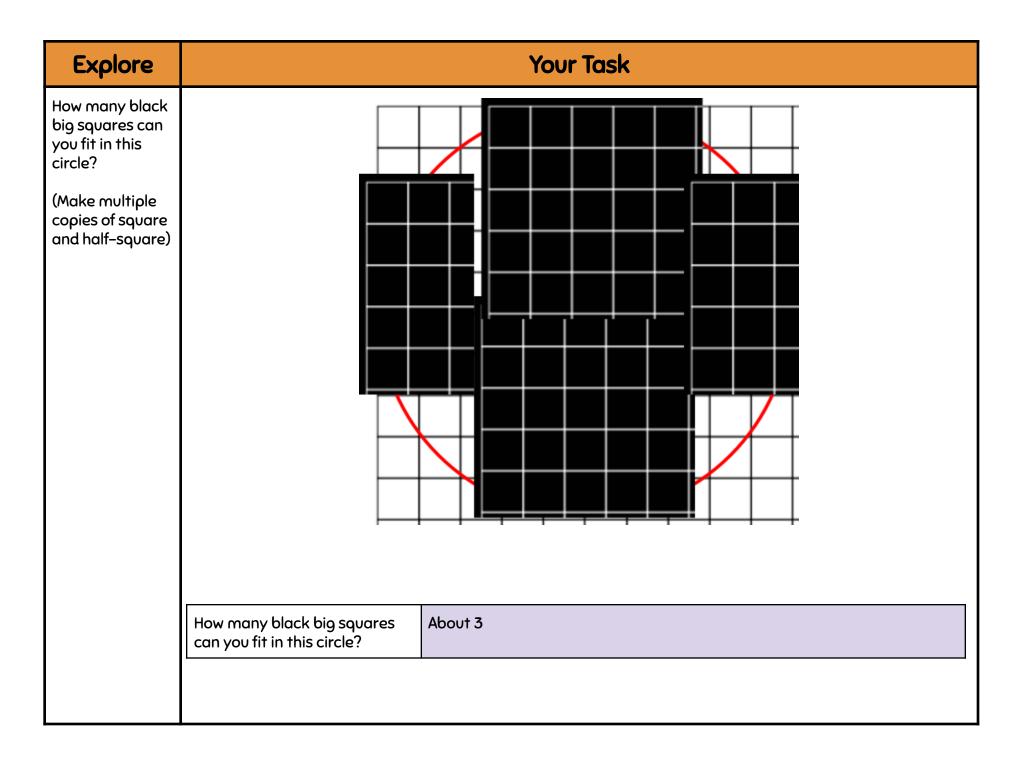
## Area of a Circle





Explain	Your Task					
How do we find area of circle?						
	The radius of your circle is		5 blocks			
	The side of your square is		5 blocks			
	If they are equal, the square is known as a		radius-square			
	What is the area of the square?		5*5=25			
	Because we fit about 3 black squares in the circle, how could we find the area of the circle?					
	Area of the circle = 3	25 = 75 or 3 * 5*5 = 75				
	Watch <u>this</u> and <u>this</u> .					
	Area of a Circle Formula	A = 3.14 *r^2 or A = $\pi$ r <sup>2</sup> or A = $\pi$ * r* r				
	Which means	Area = 3.14 * rad	ius * radius			
	** If you struggle with mulitplying decimals, use 3 for pi instead of 3.14. It will get you an estimate that is close enough to find the correct answer **					

Apply	Your Task							
Solve for the area of the								
circles		Radius	7 cm					
	r = 7 cm	Formula	$A = \pi r^2 \text{ or } A = \pi r^* r$					
		Substitute	A = 3.14 * 7 * 7					
		Solve	153.86 cm <sup>2</sup>					
	d = 20 cm	Radius	10 cm, because diameter is 20 cm					
		Formula	$A = \pi r^2 \text{ or } A = \pi r^* r$					
		Substitute	A = 3.14 * 10*10					
		Solve	314 cm <sup>2</sup>					
		Radius	15 cm, because diamter is 30 cm					
	d = 30 cm	Formula	$A = \pi r^2 \text{ or } A = \pi r^* r$					
		Substitute	A = 3.14 * 15 * 15					
		Solve	706.5 cm <sup>2</sup>					

Your Task				
	Radius	4 cm		
	Formula	$A = \pi r^2 \text{ or } A = \pi r^* r$		
/	Substitute	A = 3.14 *4 * 4		
<u> </u>	Solve for total	50.24 cm <sup>2</sup>		
r = 4 cm	It's a half	50.24/2 = 25.12 cm <sup>2</sup>		
	r = 4 cm	Radius Formula Substitute Solve for total		