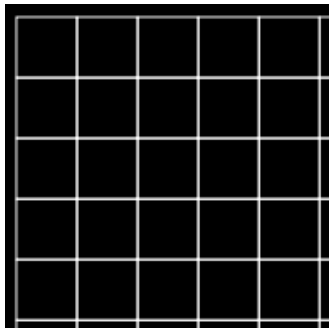
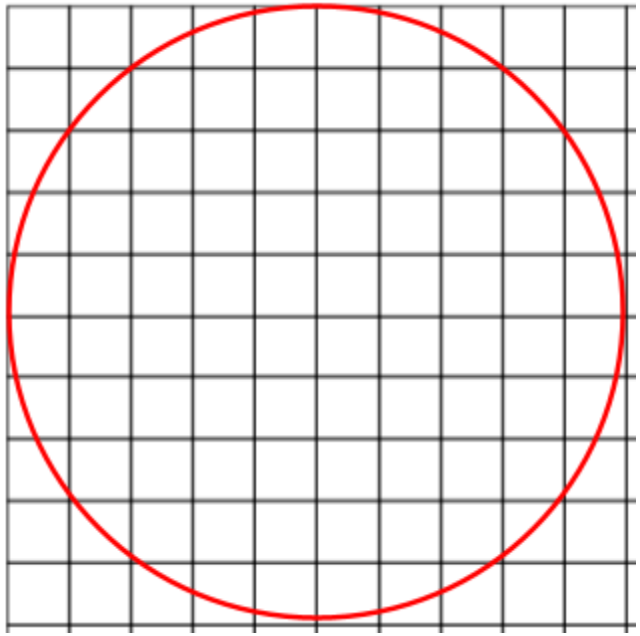
Area of a Circle

Engage	Your Task
Draw and label the parts of the circle. What is similar between these two shapes?	 

What is similar between these two shapes?	

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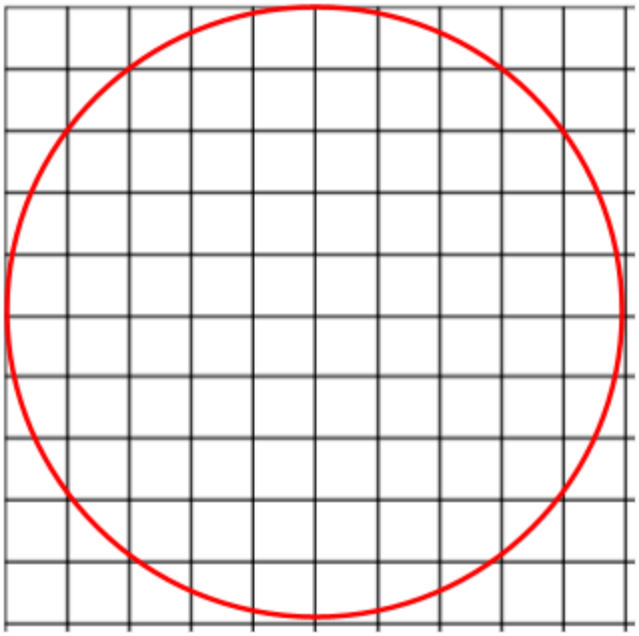
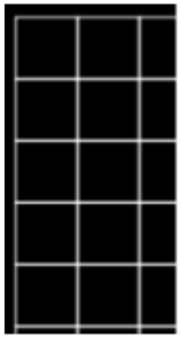
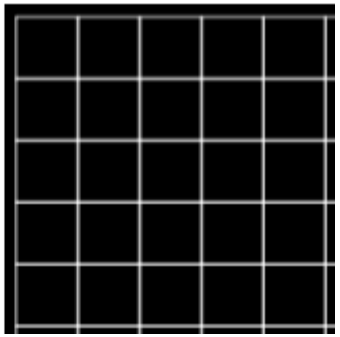
Explore	Your Task
How many black big squares can you fit in this circle? (Make multiple copies of square and half-square)	  

How many black big squares can you fit in this circle?	

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Explain	Your Task
How do we find area of circle?	

The radius of your circle is	
The side of your square is	
If they are equal, the square is known as a	
What is the area of the square?	

Because we fit _____ black squares in the circle, how could we find the area of the circle?

Area of the circle =	

Watch this and this.

Area of a Circle Formula	
Which means...	

** 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 **

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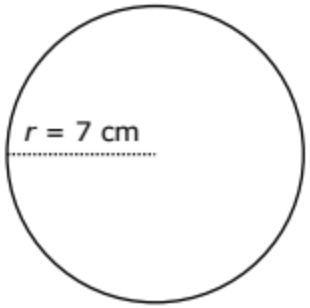
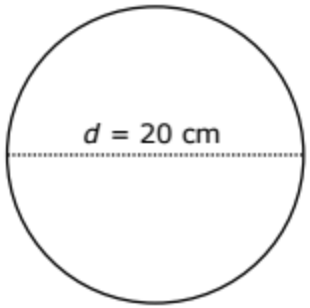
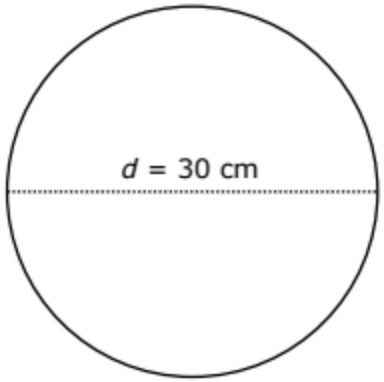
Apply	Your Task
Solve for the area of the circles	



Radius	
Formula	
Substitute	
Solve	



Radius	
Formula	
Substitute	
Solve	



Radius	
Formula	
Substitute	
Solve	

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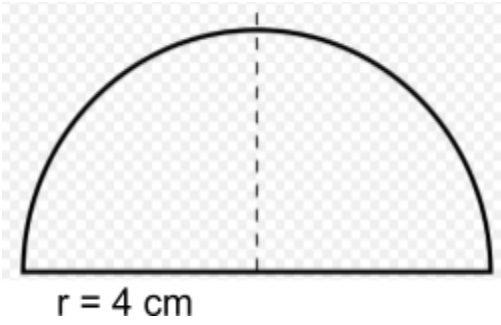
Reflect	Your Task
Could you use what you have learned to find the area of this shape?	

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