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STA2023

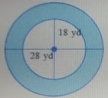
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MGF / Area between two concentric circles

At the park there is a pool shaped like a circle. A ring-shaped path goes around the pool. Its inner diameter is 18 yd and its outer diameter is 28 yd.



Handwritten calculations:

Inner circle: $r = 9$
 $A = \pi r^2$
 $A = \pi 9^2$
 $A = 81\pi$

Outer circle: $r = 14$
 $A = \pi r^2$
 $A = \pi 14^2$
 $A = 196\pi$

We are going to give a new layer of coating to the path. If one gallon of coating can cover 8 yd^2 , how many gallons of coating do we need? Note that coating comes only by the gallon, so the number of gallons must be a whole number. If necessary, refer to the list of geometry formulas.

gallons of coating

$196\pi - 81\pi = 115\pi$ Area of path

$\frac{115\pi}{8} = \text{number of gallons of paint}$

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