MasterMath

Geometry

CONCEPT OF π AND THE CIRCUMFERENCE OF A CIRCLE

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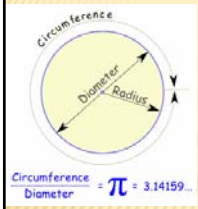
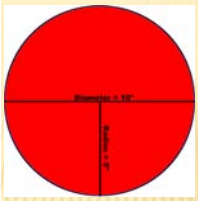
3.14159265358979323846264338327950288419716939937510582097944592307816406286208998628034825342117067982148086513282306647093844609584102701938042881097566712019091456036072602491520920962829053054882046703657595919548074462379318301194912163952247371907021798609437027705392171762931767523846748184676694051320005681271452635608277857713427577896091736371787214

Pi = π = 3.14

CONCEPT OF π AND THE CIRCUMFERENCE OF A CIRCLE





C = πd

d = 2r

C = 2πr

C = 3.14 * 10” = 31.4”

C = 2 * 3.14 * 5” = 31.4”

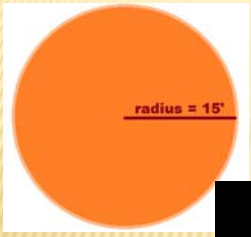
CONCEPT OF π AND THE CIRCUMFERENCE OF A CIRCLE

Find the Circumference

$C = \pi d$

$C = 2\pi r$

$\pi = 3.14$



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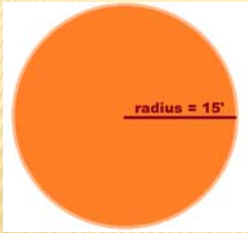
You Try

CONCEPT OF π AND THE CIRCUMFERENCE OF A CIRCLE

Find the Circumference



$C = 2\pi r$

$= (2)(3.14)(15)$

$= 94.2'$

You Try

CONCEPT OF π AND THE CIRCUMFERENCE OF A CIRCLE

The Rotunda at the Texas State Capital Building has a radius of 25'. What is the Circumference of the Rotunda?

You Try

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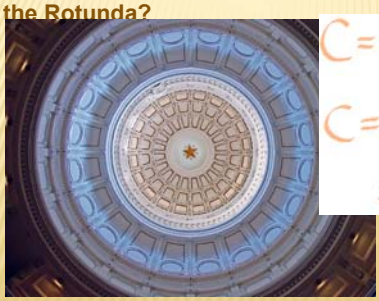


$C = \pi d = 2\pi r$

$C = 2(3.14)\,25$

$= 157'$

You Try It

CONCEPT OF π AND THE CIRCUMFERENCE OF A CIRCLE

The blades on this wind turbine are 12' long. With average wind speeds, the tip of the blade travels at 5' per second. At that speed, how long will it take for the blade to make a complete circle and return to its starting point?

You Try It

CONCEPT OF π AND THE CIRCUMFERENCE OF A CIRCLE

The blades on this wind turbine are 12' long. With average wind speeds, the tip of the blade travels at 5' per second. At that speed, how long will it take for the blade to make a complete circle and return to its starting point?

$C = 2\pi r$

$= 2(3.14)(12')$

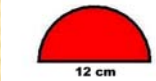
$\approx 75'$

$75' \div 5'$ per second $=$ 15 seconds

You Try It

CONCEPT OF π AND THE CIRCUMFERENCE OF A CIRCLE

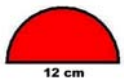
Find the perimeter a semi-circle with a diameter of 12 cm.



You Try It!

CONCEPT OF π AND THE CIRCUMFERENCE OF A CIRCLE

Find the perimeter a semi-circle with a diameter of 12 cm.



$C = \pi d = 3.14 \times 12 = 37.7\text{ cm}$

$\frac{1}{2}C = 37.7 \times \frac{1}{2} = 18.8\text{ cm}$

$\frac{1}{2}C + d = 18.8 + 12 = 30.8\text{ cm}$

You Try It!

CONCEPT OF π AND THE CIRCUMFERENCE OF A CIRCLE

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