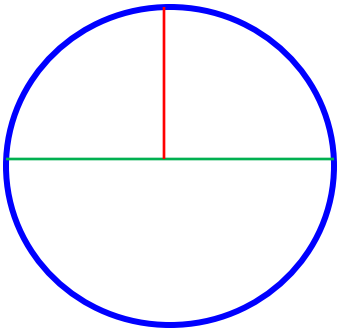
*An **Arc** is the* curve in any part of a circle. To find this ***arc*** we can use this formula:

$$(D/360) \times 2\pi r$$

As you can see by the formula the **Diameter** of the circle will determine the ***arc***.

For example: If **10** is the diameter of this circle then 5 is the radius (radius is half the diameter).
Once we know this (diameter or radius) the rest is easy.



D/360 x 2 πr

So, 10/360 x 2π5 (2 x 5 = 10 so we now have 10 π)

10/360 x 10π (10 x 3.14 = 31.4)

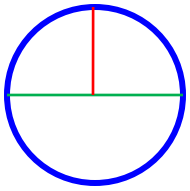
10/360 x 31.4 (Make **31.4** into a fraction and multiply straight across)

10/360 x 31.4/1 (**10** x **31.4** = 314; 360 x 1 = 360; so we have 314/360)

***arc* = .8722**

Solve for the ***arc*** using the formula: D/360 x 2 πr

D = 6
r = 3

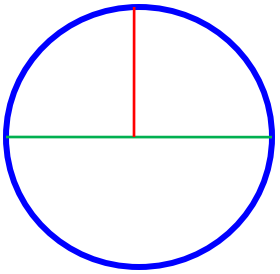


D/360 x 2 πr

6/360 x 2 π3

***arc* = _____**

D = 12
r = __



D/360 x 2 πr

__/360 x 2 π__

***arc* = _____**