RADIUS AND DIAMETER

What is the difference?

The diameter of a circle is the *width* of the circle, i.e. the distance from one side to the other side.

The radius of a circle is *half* the diameter, i.e. the distance from the centre of the circle to the side of the circle. This is exactly half the diameter.

When relating the concepts of radius and diameter to a flow chart, you should picture in your mind that the sprinkler is in the middle of the circle and, if the flow chart states that the sprinkler has a radius of 4 meters it means that the sprinkler will spray water 4 meters from the centre of the circle to the outside edge, i.e. your sprinkler will have a 4 meter radius.

Remember, the diameter is twice the radius because the radius is half the diameter

Thus, if your sprinkler has a four meter radius it must have an 8 meter diameter.

This means, if the sprinkler was opened up to a half circle or more the sprinkler would spray water over an 8 meter area. This does not mean that the sprinkler will water an 8 meter area as some people believe.

Basically, a sprinkler will not water the area around itself. This area has to be watered by a second sprinkler located preferably at a radius distance from the first sprinkler. This is called , locating sprinkler head to head, i.e., each sprinkler is watered by the sprinklers around it that are located at the radius distance from each other.

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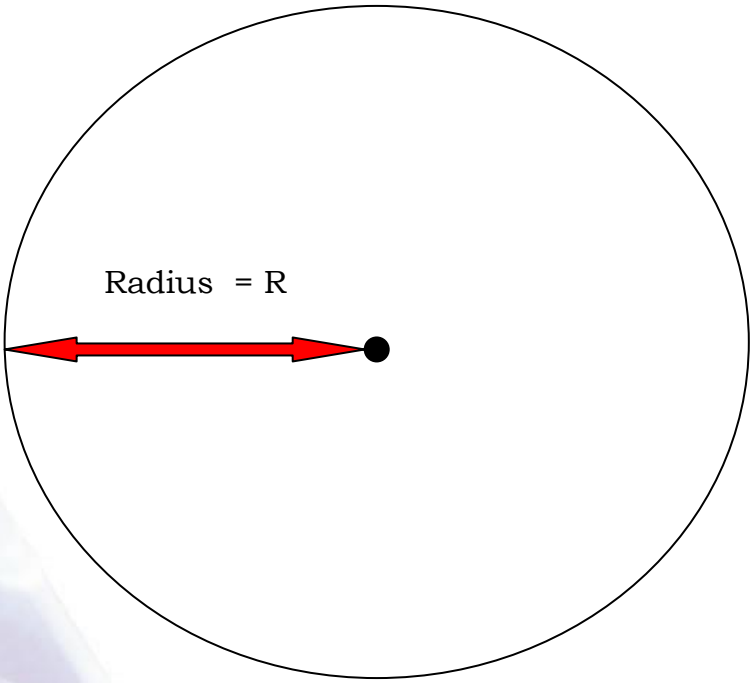
Radius

The Radius Is HALF of the Diameter



Diameter

The Diameter is the whole width which is twice x Radius = Diameter