

6. The base of a triangle is 13.24 chains and its height is 8.59 chains. Find the area in acres and rods, 10 sq. chains being equal to an acre. *5 ac 109.8528 rds.*
7. Find the height of a triangle whose area is $27\frac{1}{2}$ sq. yards and base 5 yards. *11.250.*
8. What is the base of a triangle whose area is 40 acres and perpendicular height 160 rods? *80 rods.*
9. What will it cost to dig a triangular lot of ground whose base is 45 rods and height 20 rods, at 5 cents a sq. rod? *\$225.*
10. What will it cost to fence a piece of ground in the shape of an equilateral triangle whose sides are 8 rods each, at $12\frac{1}{2}$ cents a foot? *\$49.50.*

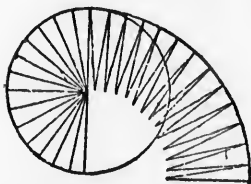
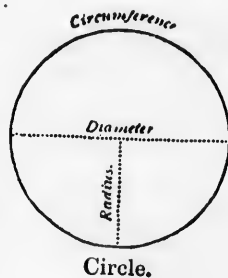
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AREA OF A CIRCLE.

A circle is a plane figure bounded by a curved line, called the **circumference**, every part of which is equally distant from a point within, called the **centre**.

The **diameter** is a straight line drawn through the centre and terminating at each end in the circumference.

The **radius** is a straight line drawn from the centre to the circumference, and is equal to half the diameter.



1. This circle has been divided into a number of triangles. If the number of triangles should be indefinitely increased, what can you say about the *relative length* of the side and perpendicular height of each triangle?