







<u>NB</u> :

Draw a circle of given radius.

Take double the angles of the triangle at the centre consecutively.



<u>3.Construction of a square of given area same as that of a rectangle.</u>

Learning objective:

The product of the parts into which a diameter of a circle is cut by a perpendicular chord, is equal to the square of half the chord.

ie,

The area of the rectangle formed of parts into which a diameter of a circle is cut by a perpendicular chord is equal to the area of the square formed by half the chord.

• Draw a rectangle of width 5 cm and height 3cm. Draw a square of the same area .

Step 1:



Step 2: Extend the line AB to outside by 3 cm.















(*for more reading / for more knowing) <u>5*</u>. <u>Construction of a square of given area same as that of a triangle.</u> <u>Learning objective</u>:

The product of the parts into which a diameter of a circle is cut by a perpendicular chord, is equal to the square of half the chord.

ie,

The area of the rectangle formed of parts into which a diameter of a circle is cut by a perpendicular chord is equal to the area of the square formed by half the chord.

• Draw a triangle of sides 4, 5, 6 centimeters ? .Draw a square of the same area ? Step 1:



Step 2: Draw a perpendicular from C to the side AB (altitude).







