Finding the Area of a Circle from its Radius or Diameter Find the <u>area of the circle</u> in each of the following problems. Make sure to find the radius when the diameter of the circle is given.

1 . Find the area of a circle whose radius is 13.6 inches.	2 . A circle has its diameter equals to 6.5 yards. Find its area.
Solution: Given the radius "r" = 13.6 in	Solution: Given the diameter d = 6.5 yards
Area of the circle $A = \pi r^2$	Radius of circle $r = d/2 = 6.5/2 = 3.25$ yards
Substitute $\pi = 3.14$ and $r = 13.6$	Area of the circle $A = \pi r^2$ Now, you can complete the rest yourself.
$A = 3.14 x \ 13.6^2$	
$A = 3.14 x \ 184.96$	
$A = 580.77 \ in^2$	
3 . Find the area of a circle whose diameter is equal to 16.0 cm.	4 . A circular flower bed has its radius equal to 15 feet. Find its area.
GURU ANGAD EDUCATIONAL	Answers: 2. 33.17, 3. 200.96, 4. 706.5