Area of Circles Guide Notes

Circle

A circle is a boundary of a round region in a plane.

Area of a Circle

The area of a circle is the product of the two constant π and the square of the length of the radius of the circle.
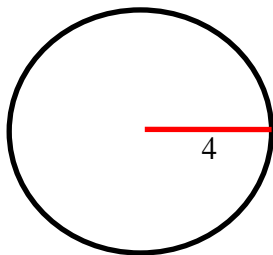
$$A = \pi r^2$$

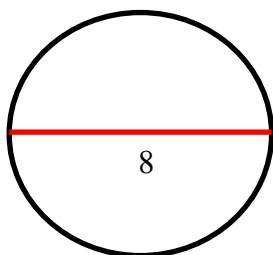The area of a circle, with the diameter of d, is

$$A = \frac{\pi d^2}{4}$$

Sample Problem 1: Find the area of the following circle.

1.

2.

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Sample Problem 2: Solve Problems involving the area of a circle.

4. The area of the circle G is 81π. Find its diameter.

5. Find the radius of a circle F if its area is 169πcm².

6. Find the area of a circle with a diameter of 21m.