Question

Find the area of a circle with diameter 10ft. Use the value 3.14 for π, and do not round your answer.

Be sure to include the correct unit in your answer.

Solution

The area of a circle is given by the formula:

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

$$A = 3.14\frac{10^2}{4} = 78.5\ ft^2.$$

Answer: $78.5\ ft^2$.