Area of a Circle

To find the area of a circle, use the formula \( \pi \times \text{radius}^2 = \text{area} \). This formula is often written as \( A = \pi r^2 \).

The circle pictured here has a radius of 5 cm.

\[
\begin{align*}
\text{r} &= 5 \text{ cm} \\
\pi &\approx 3.14 \\
A &= 3.14 \times (5 \text{ cm} \times 5 \text{ cm}) \\
A &= 3.14 \times 25 \text{ cm}^2 \\
A &= 78.50 \text{ cm}^2
\end{align*}
\]

Find the area of each circle. Use 3.14 for pi.

a. 

b. 

c. 

d. 

e. 

f. 

g. Jose has a circular dartboard. The bull's eye has a diameter of 14 mm. What is the area of the bull's eye?
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To find the area of a circle, use the formula $\pi \times \text{radius}^2 = \text{area}$. This formula is often written as $A = \pi r^2$.

The circle pictured here has a radius of 5 cm.

$r = 5 \text{ cm}$

$\pi \approx 3.14$

$A = 3.14 \times (5 \text{ cm} \times 5 \text{ cm})$

$A = 3.14 \times 25 \text{ cm}^2$

$A = 78.50 \text{ cm}^2$

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**ANSWER KEY**

1256 ft$^2$  
375.94 m$^2$  
803.84 km$^2$  
907.46 in.$^2$  
1962.50 cm$^2$  
1017.36 mi$^2$

$3.14 \times 49 \text{ mm}^2 = 153.86 \text{ mm}^2$

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