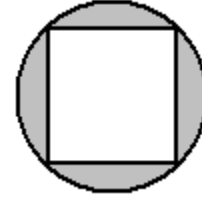


## MATC9 Ch2.4 Key Concepts 2 Areas of Composite Figures Worked Example

**Example:** A circular template with a radius of 10 cm had a square with a side of 14.1 cm cut out of it, as shown. Find the area remaining.



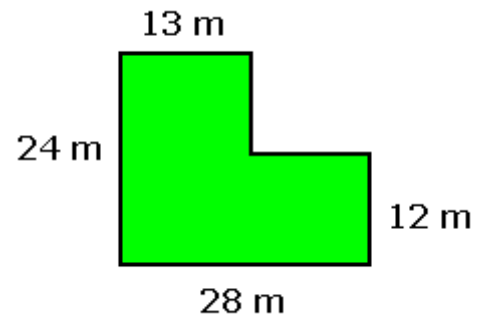
**Solution:** The shaded area is equal to the area of the circle minus the area of the square.

$$\begin{aligned} A &= \pi r^2 - l \times w \\ &= \pi \times 10^2 - (14.1 \times 14.1) \\ &= 115.3 \text{ cm}^2 \end{aligned}$$

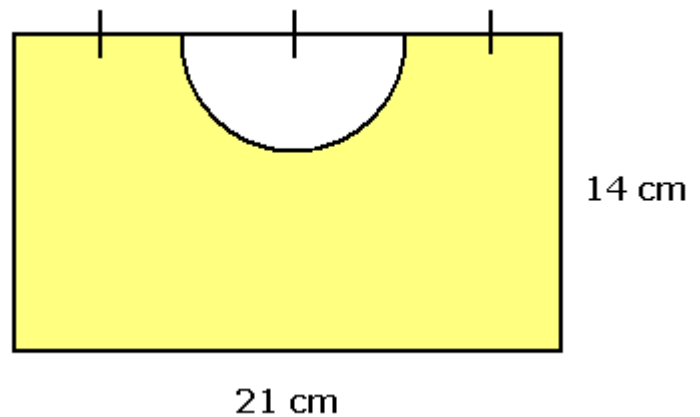
The area is 115.2 cm<sup>2</sup>.

**Practice:**

1. Santander had an L-shaped back yard, as shown. Find the area of the yard.



2. The pattern for a shirt called for a piece as shown. Find the area of the piece.



Answers: 1. 492 m<sup>2</sup> 2. 274.8 cm<sup>2</sup>