



Area of composite figures

GRADE 7 MATH

Name _____

Date _____

Answer every item. **List the pieces** and their areas before totalling. Leave π in your answers. One skill: **area of composite figures.**

WORKED EXAMPLE

Break the shape into pieces you know, find each area, then add — or subtract, if a piece is missing. The trap is the **inner dimension**: when a semicircle sits on the end of a 6 cm wide rectangle, that 6 cm is the semicircle's **diameter**, so its radius is **3**. Using 6 as the radius gives four times too much area, every time.

1. Find the area of a rectangle 10 cm by 6 cm.

FLUENCY

Show your thinking

Answer

2. A semicircle is attached to the 6 cm end of that rectangle. Find the semicircle's area, stating its radius first.

REASONING

Show your thinking

Answer

3. An L-shape is a 12 cm by 8 cm rectangle with a 5 cm by 3 cm rectangle removed. Find its area.

Show your thinking

Answer

4. A shape is an 8 cm by 5 cm rectangle with a triangle on top, base 8 cm and height 4 cm. Find the total area, showing each piece.

Show your thinking

Answer