NAME Natalee Costa DATE 3/29/21 PERIOD 1

# Lesson 3 Reteach

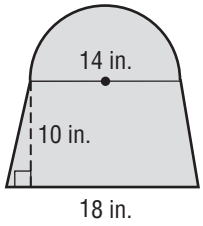
## *Area of Composite Figures*

To find the area of a composite figure, decompose the figure into shapes whose areas you know how to find. Then find the sum of these areas.

### Example

**Find the area of the composite figure.**

The figure can be separated into a semicircle and trapezoid.

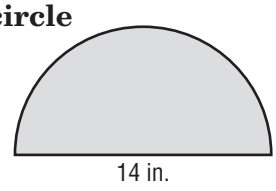



**Area of semicircle**

$A = \frac{1}{2}\pi r^2$

$A = \frac{1}{2} \cdot \pi \cdot (7)^2$

$A \approx 77.0$

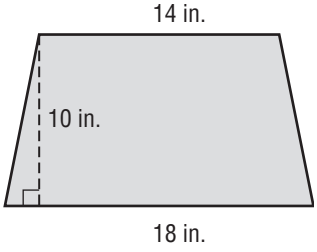



**Area of trapezoid**

$A = \frac{1}{2} h(b_1 + b_2)$

$A = \frac{1}{2} \cdot 10 \cdot (14 + 18)$

$A = 160$

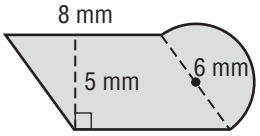



The area of the figure is about 77.0 + 160 or 237 square inches.

### Exercises

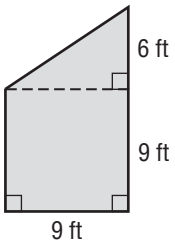
**Find the area of each figure. Round to the nearest tenth if necessary.**

**1.**



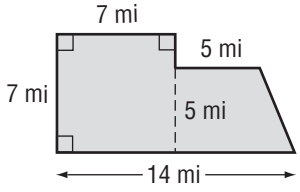

54.1 mm squared

**2.**



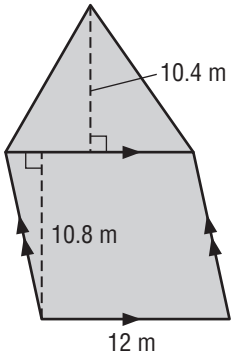

108 ft squared

**3.**



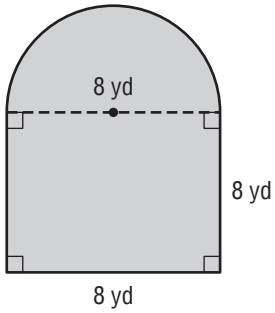

79 mi squared

**4.**



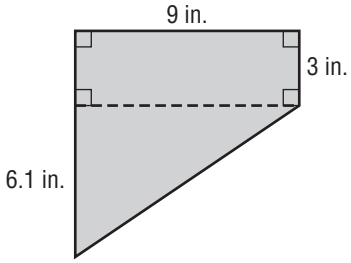

192 m squared

**5.**




89.1 yd squared

**6.**




54.5 in squared