

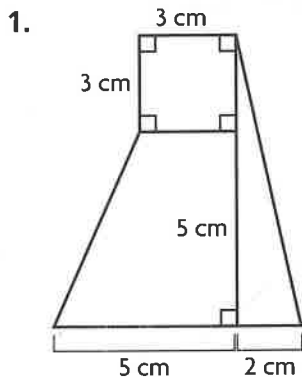
Name \_\_\_\_\_

### Composite Figures

Find the area of the figure.



**COMMON CORE STANDARD—6.G.A.1**  
Solve real-world and mathematical problems involving area, surface area, and volume.



area of square

$$A = s \times s$$

$$= 3 \times 3 = 9 \text{ cm}^2$$

area of triangle

$$A = \frac{1}{2}bh$$

$$= \frac{1}{2} \times 2 \times 8 = 8 \text{ cm}^2$$

area of trapezoid

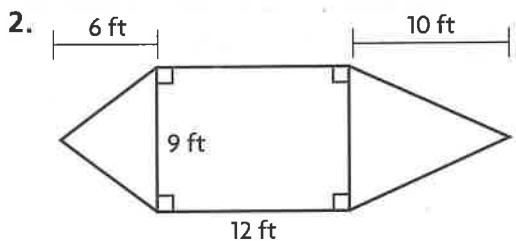
$$A = \frac{1}{2}(b_1 + b_2)h$$

$$= \frac{1}{2} \times (5 + 3) \times 5 = 20 \text{ cm}^2$$

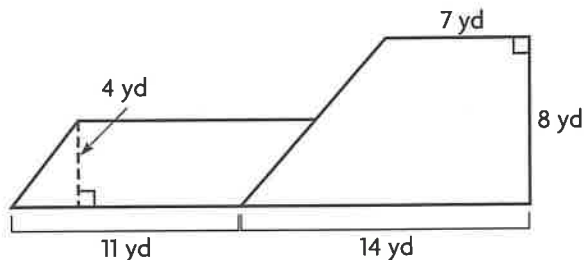
area of composite figure

$$A = 9 \text{ cm}^2 + 8 \text{ cm}^2 + 20 \text{ cm}^2$$

$$= 37 \text{ cm}^2$$



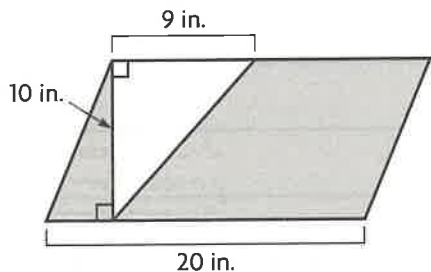
3.



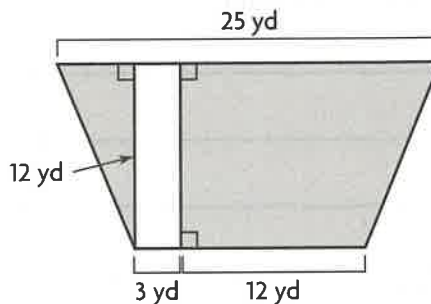
### Problem Solving



4. Janelle is making a poster. She cuts a triangle out of poster board. What is the area of the poster board that she has left?



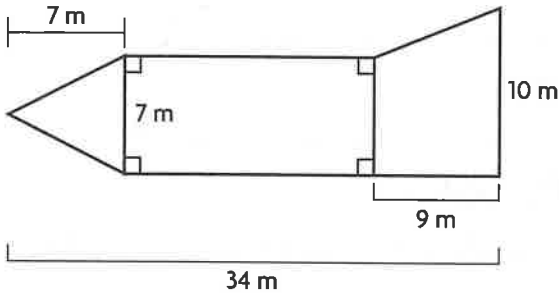
5. Michael wants to place grass on the sides of his lap pool. Find the area of the shaded regions that he wants to cover with grass.



6. **WRITE** *Math* Describe one or more situations in which you need to subtract to find the area of a composite figure.

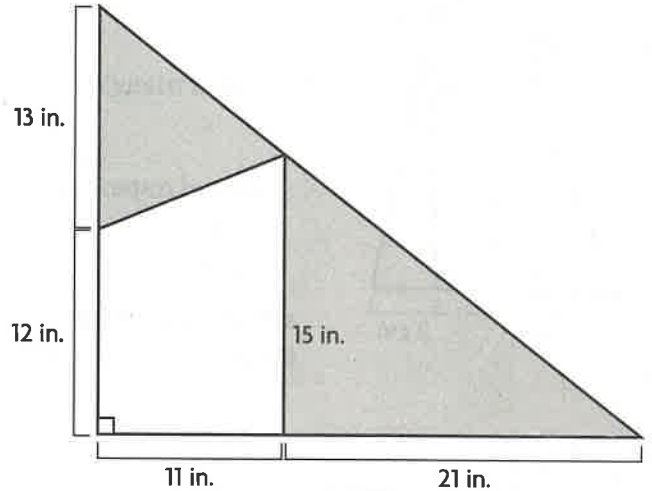
**Lesson Check** (6.G.A.1, 6.EE.A.2c)

1. What is the area of the composite figure?




---

2. What is the area of the shaded region?




---

**Spiral Review** (6.EE.A.2c, 6.EE.B.8, 6.EE.C.9, 6.G.A.1)

3. In Maritza's family, everyone's height is greater than 60 inches. Write an inequality that represents the height  $h$ , in inches, of any member of Maritza's family.

---



---



---



---

5. Two congruent triangles fit together to form a parallelogram with a base of 14 inches and a height of 10 inches. What is the area of each triangle?

---

4. The linear equation  $y = 2x$  represents the cost  $y$  for  $x$  pounds of apples. Which ordered pair lies on the graph of the equation?

---



---



---



---

6. A regular hexagon has sides measuring 7 inches. If the hexagon is divided into 6 congruent triangles, each has a height of about 6 inches. What is the approximate area of the hexagon?

---