

# Decomposing Polygons to Find Area

**Directions:** Find the area of each polygon below. Decompose each polygon into basic shapes, such as rectangles and triangles. Find the total area by adding up the areas of the smaller shapes.

**1.**

3 in.  
9 in.<sup>2</sup>  
6 in.  
30 in.<sup>2</sup>  
3 in.  
10 in.

total area = 39 in.<sup>2</sup>

**2.**

10 mm  
12 mm  
120 mm<sup>2</sup>  
72 mm<sup>2</sup>  
22 mm

total area = 192 mm<sup>2</sup>

**3.**

24 ft.<sup>2</sup> 6 ft.  
11 ft.  
90 ft.<sup>2</sup> 6 ft.  
5 ft.  
120 ft.<sup>2</sup> 6 ft.  
20 ft.

total area = 234 ft.<sup>2</sup>

**4.**

16 cm<sup>2</sup>  
13 cm  
40 cm<sup>2</sup> 5 cm  
7 cm  
60 cm<sup>2</sup> 4 cm  
15 cm

total area = 116 cm<sup>2</sup>

# Decomposing Polygons to Find Area

**Keep going!** Find the area of each polygon below. Decompose each polygon into basic shapes, such as rectangles and triangles. Find the total area by adding up the areas of the smaller shapes.

**5.**

total area = 65.5 m<sup>2</sup>

**6.**

total area = 165 in.²

**7.**

total area = 170 cm<sup>2</sup>

**8.**

total area = 544 ft.²