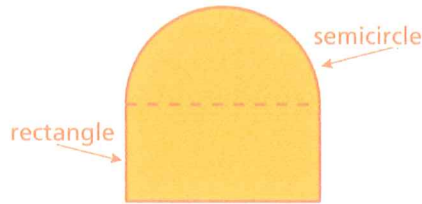
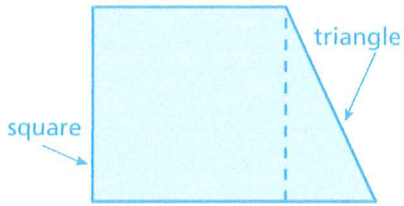


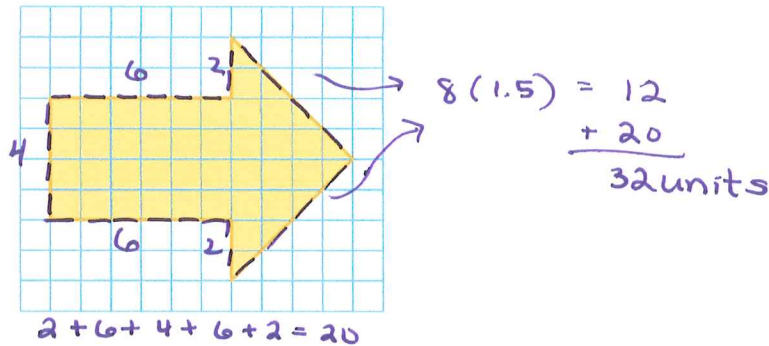
### 13.2 Perimeter of Composite Figures p. 558

A **composite figure** is made up of triangles, squares, rectangles, semicircles and other two-dimensional figures. Here are 2 examples:

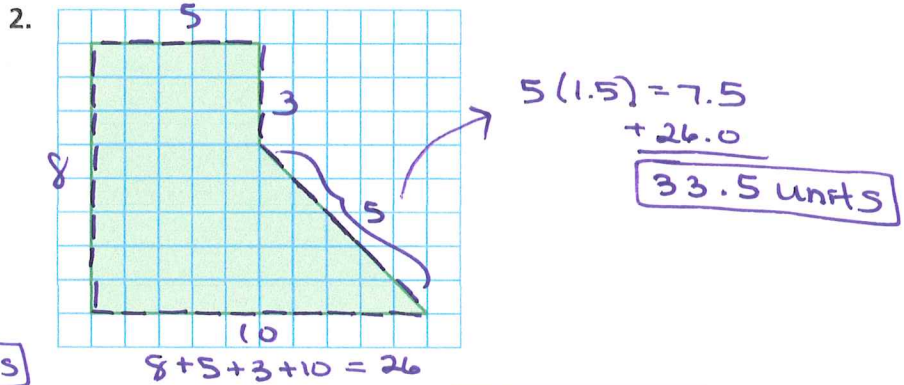
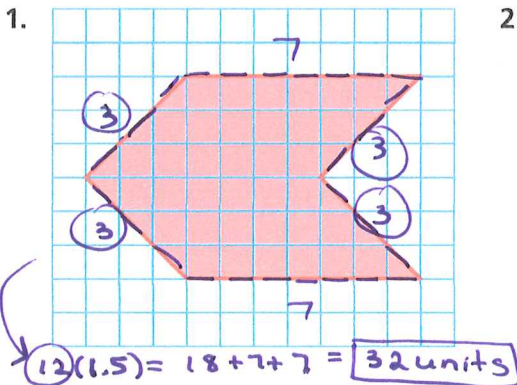


To find the perimeter of a composite figure, find the distance around the figure.

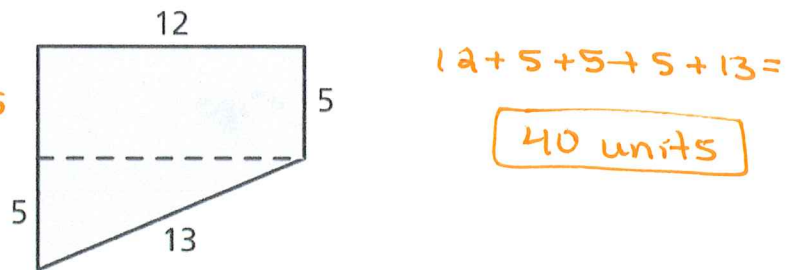
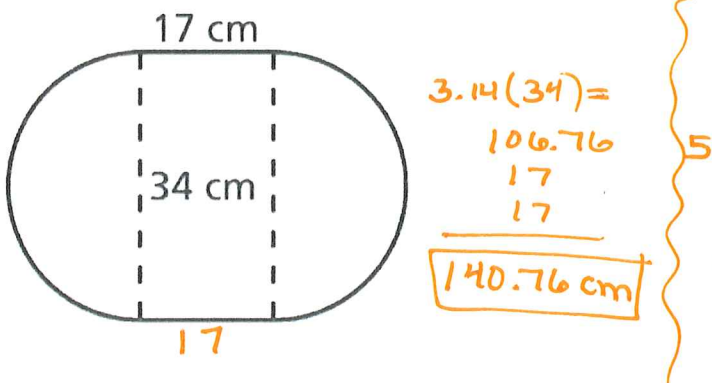
When estimating a perimeter using grid paper, estimate the **diagonal length** to be **1.5 units**.



Try these on your own:

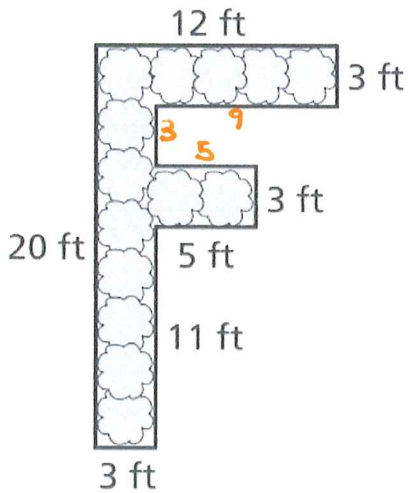


For the rest of the examples, find the actual perimeter of each **composite figure**.

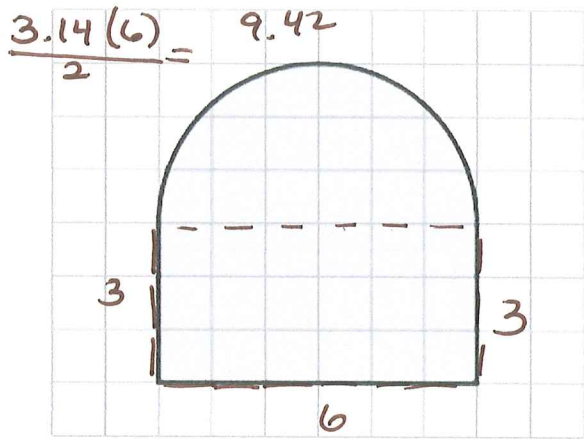


10 Sides

$$20 + 12 + 3 + 9 + 3 + 5 + 3 + 5 + 11 + 3$$

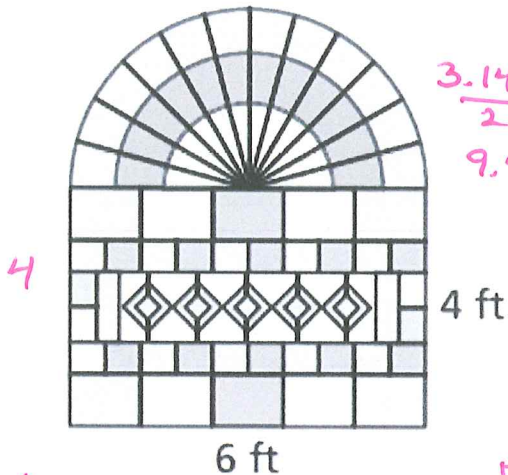


74 ft



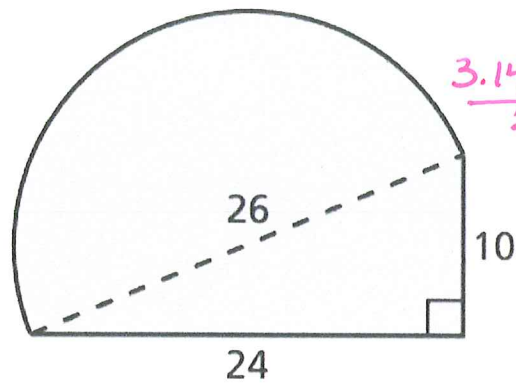
$$3 + 6 + 3 = 12 + 9.42 =$$

21.42 units



$$\frac{3.14(6)}{2} = 9.42$$

$$6 + 4 + 4 = 14 + 9.42 = 23.42 \text{ ft}$$



$$\frac{3.14(26)}{2} = 40.82$$

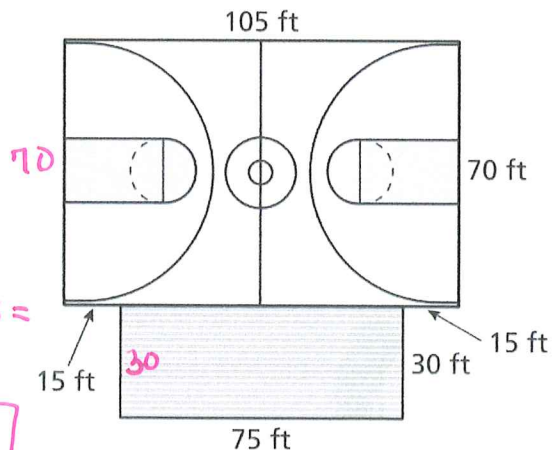
$$24 + 10 + 40.82 = 74.82 \text{ units}$$

The dimensions of a new city park basketball court are shown at the right. A fence is to be built around the court and bleachers. The fence costs \$8.99 per foot. How much will it cost to install the fence?

$$105 + 70 + 70 + 15 + 15 + 30 + 30 + 75 =$$

$$P = 410 \text{ ft}$$

$$410(8.99) = \$3685.90$$



$$9 + 9 + 20 + 20 = 58$$

A school has a garden in the shape of a pencil. A fence is to be built around the garden. The fence costs \$2.75 per foot. How much will it cost to install the fence?

$$18.84 + 58 = 76.84$$

$$76.84 \times (2.75) =$$

\$ 211.31

