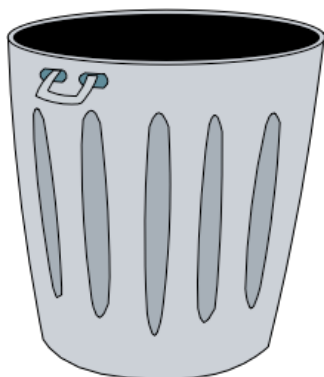
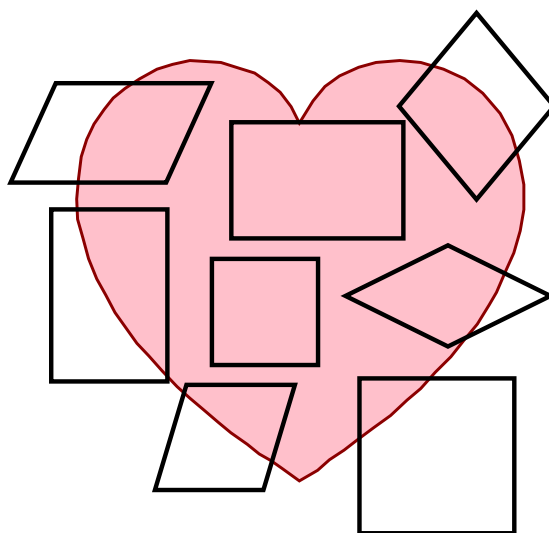


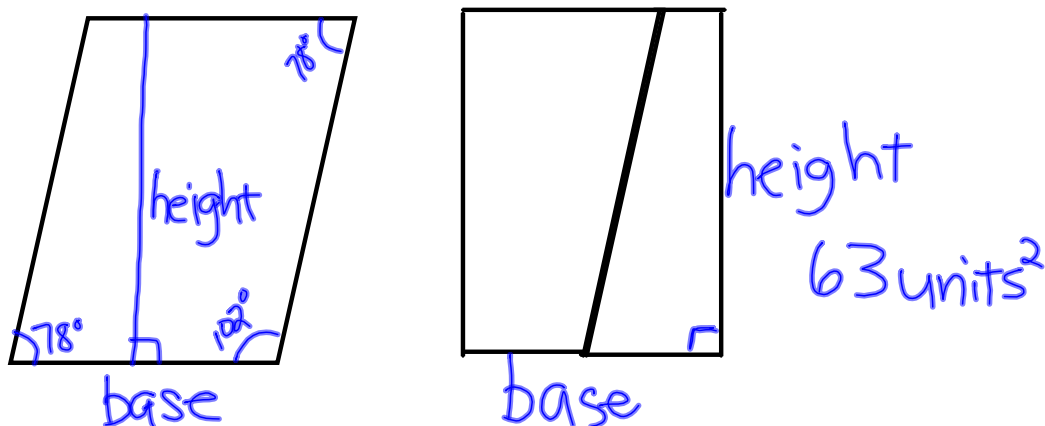
7th Grade Lesson 61

- I can find the area of a parallelogram.
- I can use the relationships among the angles of a parallelogram to find their measures.



Which figures are parallelograms?





The **height** is perpendicular to the base.

The dimensions of a rectangle are often called the length and width. When describing a parallelogram, we use the terms **base** and **height**.

Area of a parallelogram = base · height

Find the perimeter and area of the parallelogram. Dimensions are in inches.

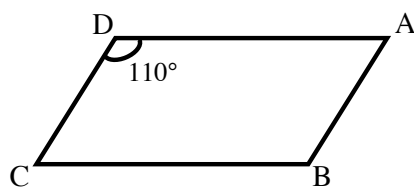


$$\begin{aligned}
 P &= 8 + 8 + 5 + 5 = 26 \text{ in} \\
 &= (2 \cdot 8) + (2 \cdot 5) = 26 \text{ in} \\
 &= 2 \cdot (8 + 5) = 26 \text{ in.}
 \end{aligned}$$

$$A = 8 \cdot 4 = 32 \text{ in}^2$$

Relationships between the angles of a parallelogram

1. Nonadjacent angles (angles in opposite corners) have equal measures.
2. Adjacent angles (angles that share a common side) are supplementary.



Assignment:

Problem Set 61

#11-15, 19-30

