Lesson 7: Drawing Parallelograms
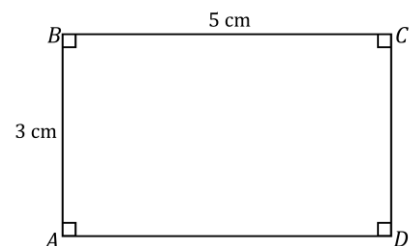
Example 1

Use what you know about drawing parallel lines with a setsquare to draw rectangle   with dimensions of your choice. State the steps you used to draw your rectangle, and compare those steps to those of a partner's.

Example 2

Use what you know about drawing parallel lines with a setsquare to draw rectangle   with   cm and   cm. Write a plan for the steps you will take to draw   .

Example 3

Use a setsquare, ruler and protractor to draw parallelogram   so that the measurement of   ,   cm, the measurement of   , and the altitude to   is   cm.

Exercise 1

Use a setsquare, ruler, and protractor to draw parallelogram   so that the measurement of   ,   cm, the measurement of   , and the altitude to   is   cm.

Example 4

Use a setsquare, ruler and protractor to draw rhombus   so that the measurement of   , the measurement of   , and each side of the rhombus measures   cm.

Problem Set

1. Draw rectangle   with   cm and   cm.

2. Use a setsquare, ruler and protractor to draw parallelogram   so that the measurement of   ,   cm,   , and the altitude to   is   cm.

3. Use a setsquare, ruler and protractor to draw rhombus   so that the measurement of   , and each side of the rhombus measures   cm.

The following table contains partial information for a parallelogram   . Using no tools, make a sketch of the parallelogram. Then use a ruler, protractor, and setsquare to draw an accurate picture.

			Altitude to		Altitude to
4.		cm		cm	
5.		cm		cm	
6.		cm	cm		

7. Use what you know about drawing parallel lines with a setsquare to draw trapezoid   with parallel sides   and   . The length of   is   cm and the length of   cm; the height between the parallel sides is   cm. Write a plan for the steps you will take to draw   .

8. Draw rectangle   with   cm and   cm using appropriate tools.

9. Challenge: Determine the area of the largest rectangle that will fit inside an equilateral triangle with side length   cm.