Lesson 7: Drawing Parallelograms

Problem Set

1. Draw rectangle with and .
2. Use a setsquare, ruler, and protractor to draw parallelogram so that the measurement of is , , the measurement of is , and the length of the altitude to is .
3. Use a setsquare, ruler, and protractor to draw rhombus so that the measurement of is , and each side of the rhombus measures .

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

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| --- | --- | --- | --- | --- | --- |
|  |  |  | **Altitude to**  |  | **Altitude to**  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
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1. Use what you know about drawing parallel lines with a setsquare to draw trapezoid with parallel sides and . The length of is , and the length of is ; the height between the parallel sides is . Write a plan for the steps you will take to draw .
2. Use the appropriate tools to draw rectangle with and .
3. Challenge: Determine the area of the largest rectangle that will fit inside an equilateral triangle with side
length .