

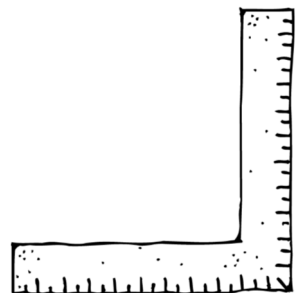


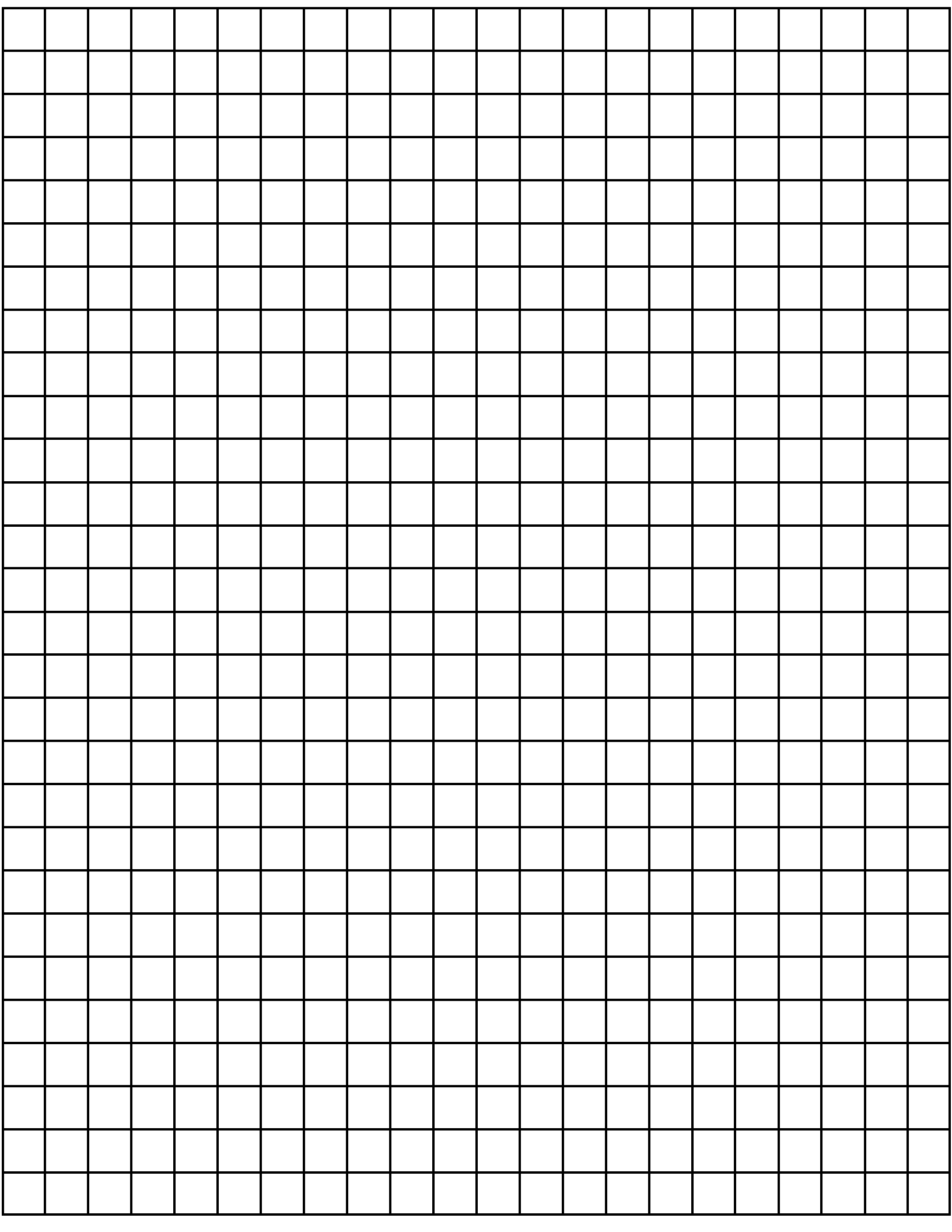
 Name: \_\_\_\_\_

## Math Lab #2—Distributive Property and Area

 Roll the two 6-sided dice to find the side lengths of the rectangle you will draw. Draw the rectangle on the graph paper, label the sides, and calculate the area. Show your equations in the space below. Do this several times.

 Roll one of the six-sided dice. Roll the 20-sided dice until you get a number greater than 10. Draw the rectangle on a new piece of graph paper and label the sides. Use the distributive property of multiplication to calculate the area. Do this several times.





## Math Lab #2—Distributive Property and Area

**Materials:** six-sided dice, 20-sided dice, graph paper, *11x17 paper for extension.*

**Goal:** Students draw rectangles and calculate the area. Students use distributive property to find the area of a rectangle.

**Procedure 1 Example:** Students roll the two 6-sided dice to find the side lengths of the rectangle they will draw. They draw the rectangle on the graph paper, label the sides, and calculate the area. This is done several times.

**Procedure 2 Example:** Students roll one of the six-sided dice to find one of the side lengths. They then roll the 20-sided dice until they get a number greater than 10. They draw the rectangle on a new piece of graph paper and label the sides. They use the distributive property of multiplication to calculate the area. This is done several times.

### **Extensions:**

Students can transition to using blank paper to draw their rectangles and label the sides.

Students can transition to rolling the dice and drawing the exact side lengths in inches and centimeters using a ruler on 11x17 paper. They can then discuss the difference in area of the shapes using inches and centimeters.