10.2b Class Activity: The Pythagorean Theorem and Tilted Squares
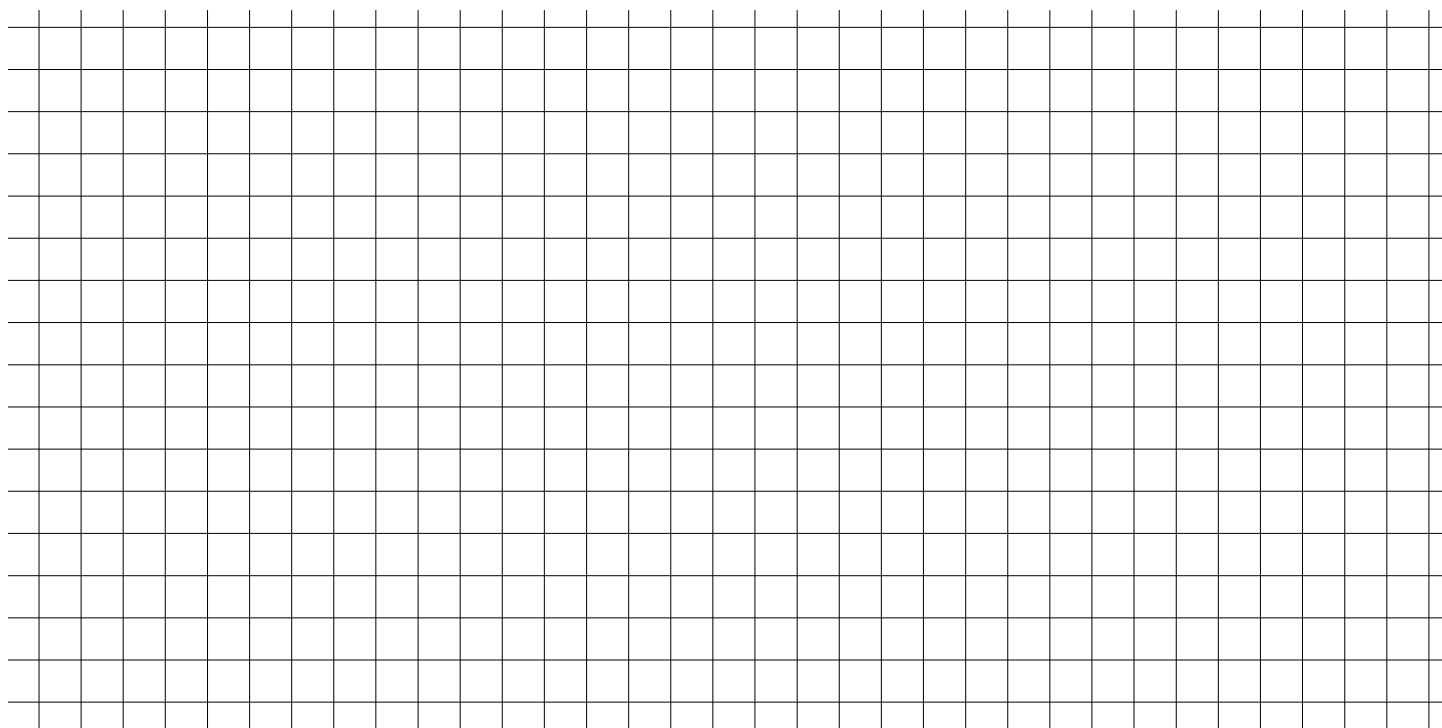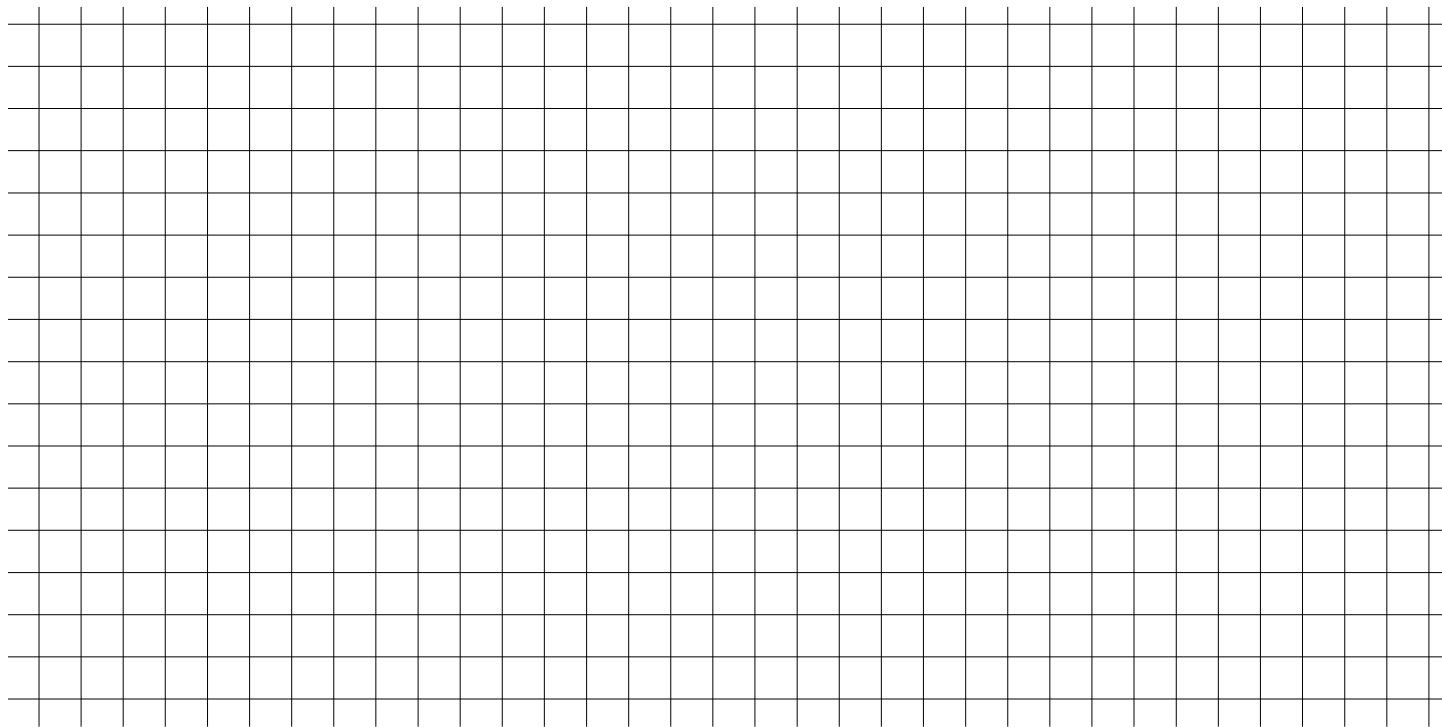
1. On the grids below, construct the following and clearly label each object:
   a. Square *ABCD* that has an area of 40 square units
   b. Square *PQRS* that has an area of 10 square units
   c. $\overline{EF}$ that has a length of $\sqrt{8}$ units
   d. $\overline{LM}$ that has a length of $\sqrt{17}$ units

2. Draw as many different squares as you can with an area of 25 square units on the grids below. In this problem, different means that the squares are not tilted the same way.