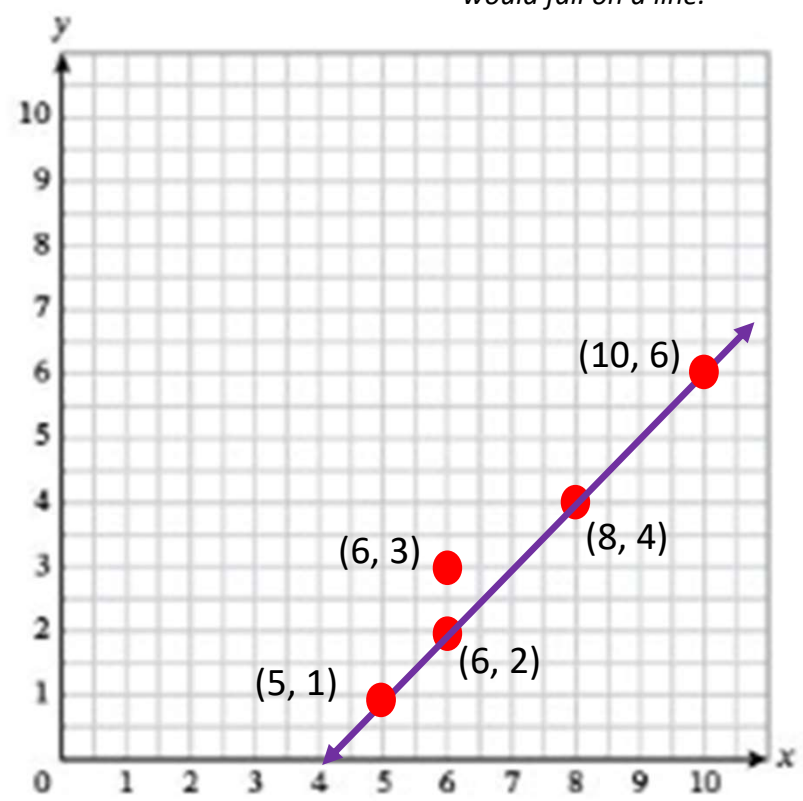


# Topic C Quiz Prep (Lessons 10 – 15)

## Item 1: Points on a Line

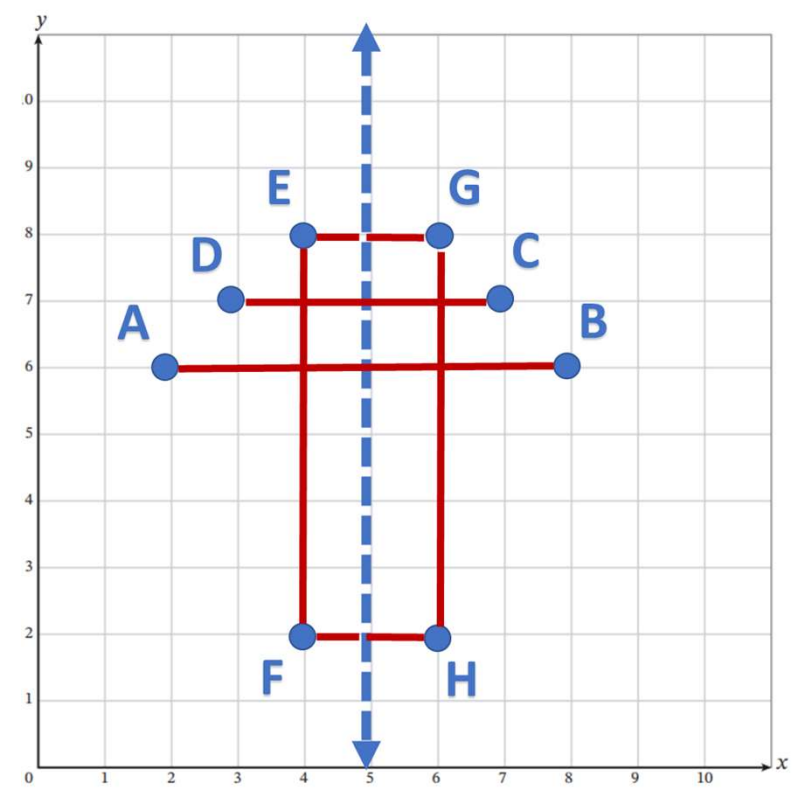
LEARN book page 109.  
Coordinate Plane C.

*In Lesson 11, we plotted points on a line. Look back in your LEARN book at the coordinate planes that we did in this lesson. Be able to determine if a point would fall on a line.*



## Items 2 & 3: Lines of Symmetry

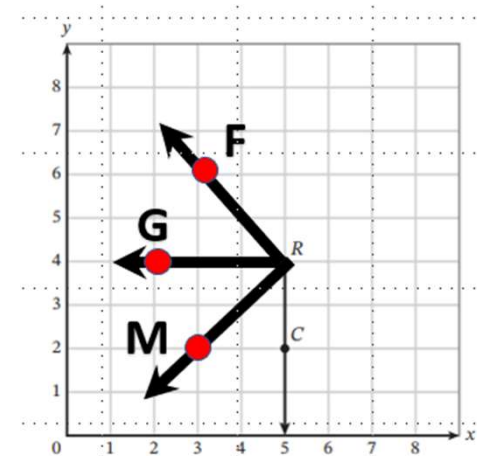
*In Lesson 13, we created an elaborate picture using lines of symmetry across a line. For two points to have symmetry, they must be EQUAL DISTANCE from the line. E and G are points of symmetry for example, so are D and C, A and B, and F and H. Be able to plot points on a coordinate plane AND determine points that have symmetry across a line.*



# Topic C Quiz Prep (Lessons 10 – 15)

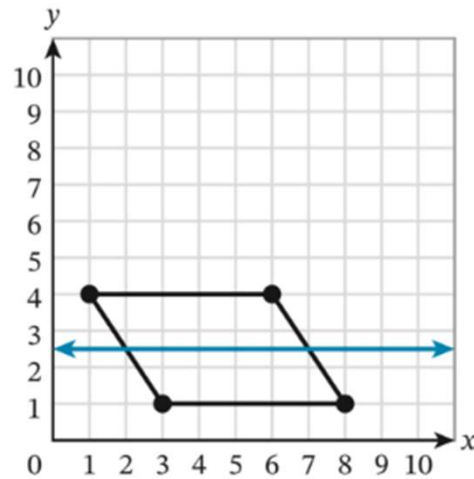
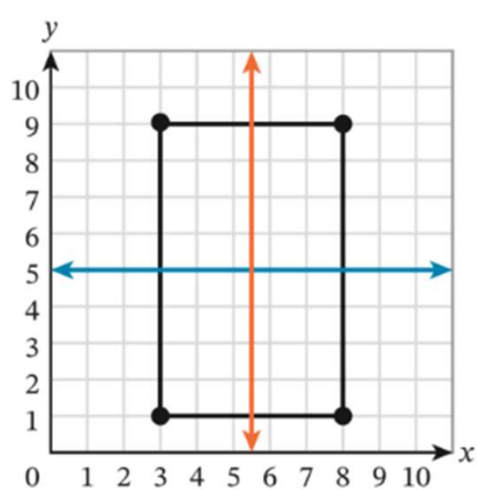
## Item 4: Plotting angles on a coordinate plane.

*In Lesson 12, we plotted points to make angles on a coordinate plane. Look back on pages 121 – 122 of your LEARN book. Be able to plot point and know the difference between right, acute, and obtuse angles.*



## Item 5: Plotting quadrilaterals on a coordinate plane.

*In Lesson 14, we plotted points to make quadrilaterals on a coordinate plane. Look back at the graphs we made and be able to name the most specific names for each quadrilateral (trapezoid, parallelogram, rectangle, square).*

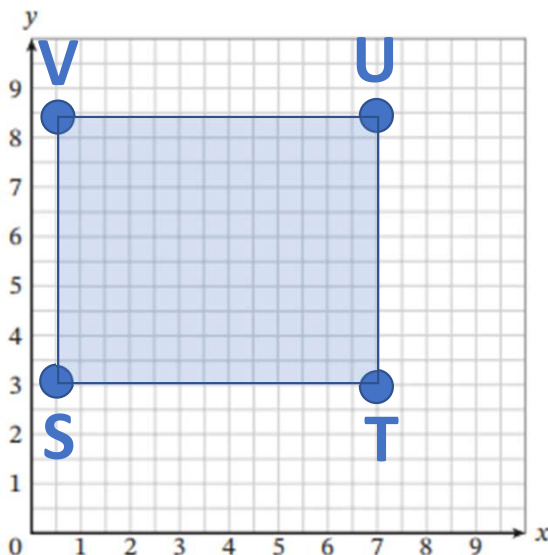


## Topic C Quiz Prep (Lessons 10 – 15)

### Item 6: Area and Perimeter of Rectangles Plotted on a Coordinate Plane.

In Lesson 15, we practiced finding the AREA and PERIMETER of rectangles. AREA is Length x Width and the answer is in square units. PERIMETER is adding up the sides.

5. Use the coordinate plane to answer parts (a)–(e).



a. Plot and label the points  $S(\frac{1}{2}, 3)$  and  $U(7, 8\frac{1}{2})$ .

b. Points  $S$  and  $U$  are two vertices of a rectangle. Locate, plot, and label the other two vertices of the rectangle, points  $T$  and  $V$ . What are the coordinates of points  $T$  and  $V$ ?

$T(7, 3)$

$V(\frac{1}{2}, 8\frac{1}{2})$

c. What are the length and width of rectangle  $STUV$ ?

$$\text{Length} = 8\frac{1}{2} - 3 = 5\frac{1}{2}$$

$$\text{Width} = 7 - \frac{1}{2} = 6\frac{1}{2}$$

d. What is the perimeter of rectangle  $STUV$ ?

$$5\frac{1}{2} + 5\frac{1}{2} + 6\frac{1}{2} + 6\frac{1}{2}$$

$$11 + 13$$

24 units

e. What is the area of rectangle  $STUV$ ?

$$\text{Area} = 5\frac{1}{2} \times 6\frac{1}{2}$$

LEARN book pages 150 -151.