

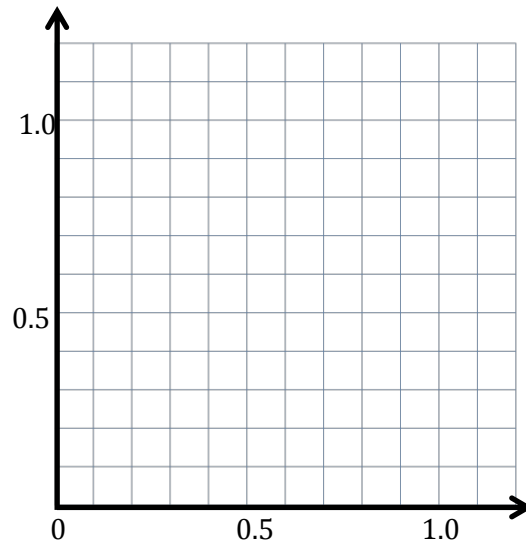
Name _____

Date _____

1. Plot and label the following points on the coordinate plane.

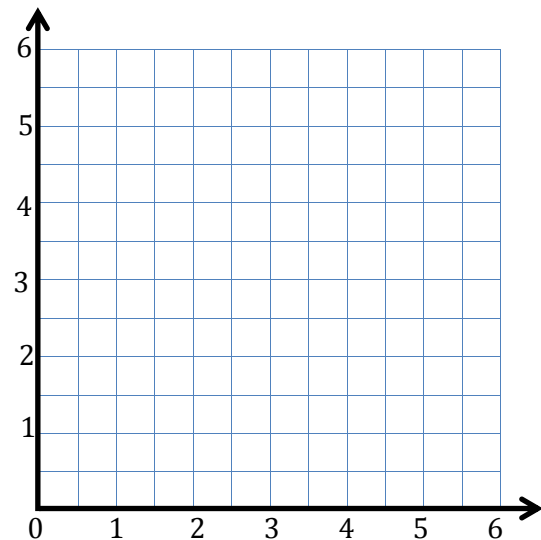
 $C: (0.4, 0.4)$
 $A: (1.1, 0.4)$
 $S: (0.9, 0.5)$
 $T: (0.9, 1.1)$

- Use a straightedge to construct line segments \overline{CA} and \overline{ST} .
- Name the line segment that is perpendicular to the x -axis and parallel to the y -axis.
- Name the line segment that is parallel to the x -axis and perpendicular to the y -axis.
- Plot a point on \overline{CA} and name it E . Plot a point on line segment \overline{ST} and name it R .
- Write the coordinates of points E and R .

 $E (\quad , \quad)$
 $R (\quad , \quad)$


2. Construct line m such that the y -coordinate of every point is $1\frac{1}{2}$, and construct line n such that the x -coordinate of every point is $5\frac{1}{2}$.

- Line m is _____ units from the x -axis.
- Give the coordinates of the point on line m that is 2 units from the y -axis. _____
- With a blue pencil, shade the portion of the grid that is less than $1\frac{1}{2}$ units from the x -axis.
- Line n is _____ units from the y -axis.
- Give the coordinates of the point on line n that is $3\frac{1}{2}$ units from the x -axis. _____
- With a red pencil, shade the portion of the grid that is less than $5\frac{1}{2}$ units from the y -axis.



3. Construct and label lines e , r , s , o on the plane below.
 - a. Line e is 3.75 units above the x -axis.
 - b. Line r is 2.5 units from the y -axis.
 - c. Line s is parallel to line e but 0.75 farther from the x -axis.
 - d. Line o is to perpendicular to lines s and e and passes through the point $(3\frac{1}{4}, 3\frac{1}{4})$.
4. Complete the following tasks on the plane.
 - a. Using a blue pencil, shade the region that contains points that are more than $2\frac{1}{2}$ units and less than $3\frac{1}{4}$ units from the y -axis.
 - b. Using a red pencil, shade the region that contains points that are more than $3\frac{3}{4}$ units and less than $4\frac{1}{2}$ units from the x -axis.
 - c. Plot a point that lies in the double shaded region, and label its coordinates.

