

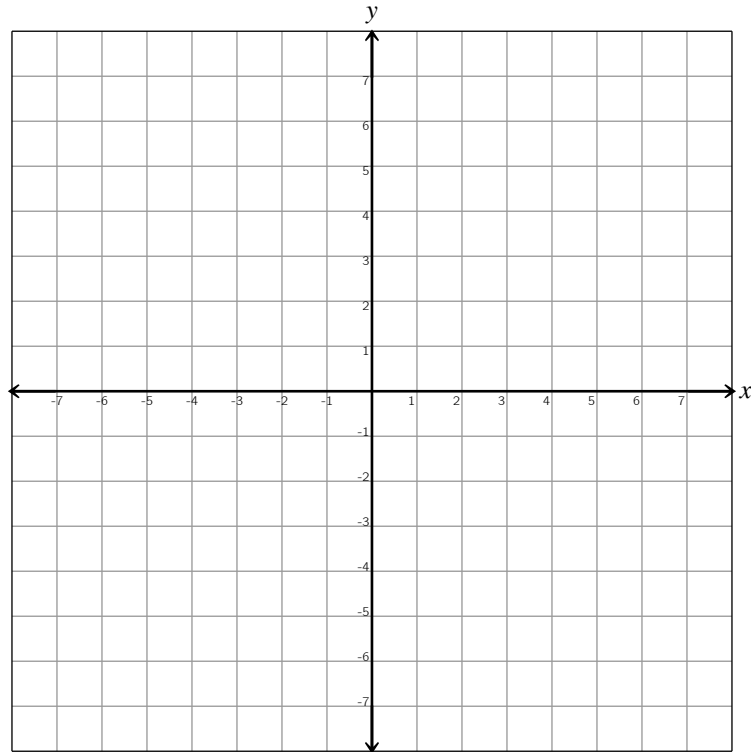
Number Lines and Coordinate Graphs

Name: _____

Date: _____

1. On the coordinate plane below, graph the line with equation $5y - 3x = -15$ by selecting the x - and y -intercepts.

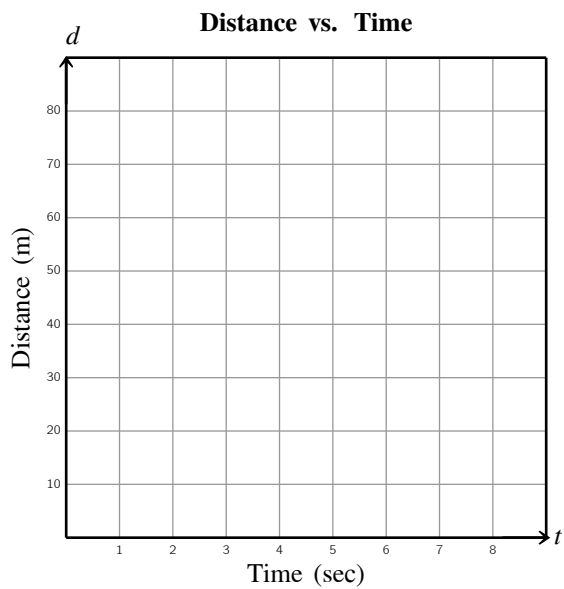
Click on the coordinate plane to select the intercepts. A line will connect them.



2. The distance (d) in meters a car travels in t seconds is shown in the table.

d	t
10	1
20	2
30	3
40	4
50	5

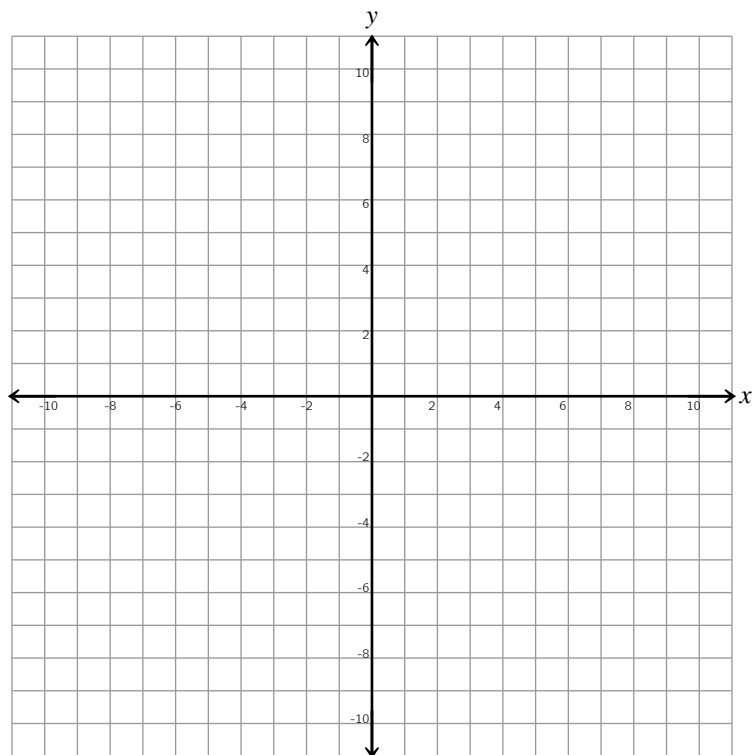
Graph the proportional relationship between the distance (d) traveled by a car and the time (t).



3. A function is shown.

$$f(x) = x^2 + 2x - 3$$

Show the x -intercepts and maximum or minimum of the function. Click on the graph to show the points.



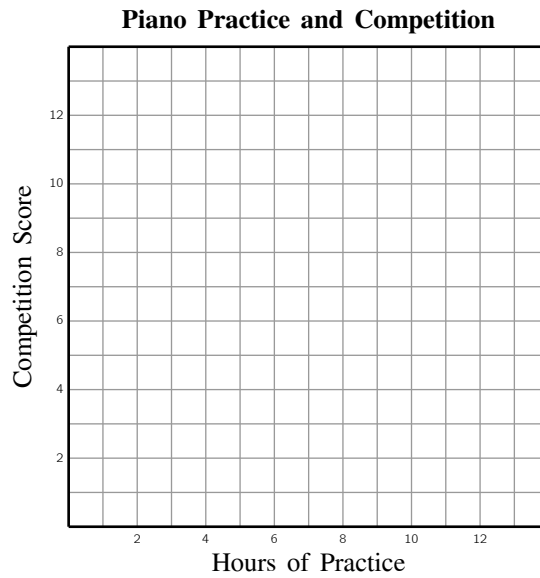
4. The table shows how many hours each of 4 students practiced piano in 1 week and their scores in a piano competition.

**Piano Practice
and Competition**

Hours of Practice	Competition Score
2	4
5	8
7	7
5	10

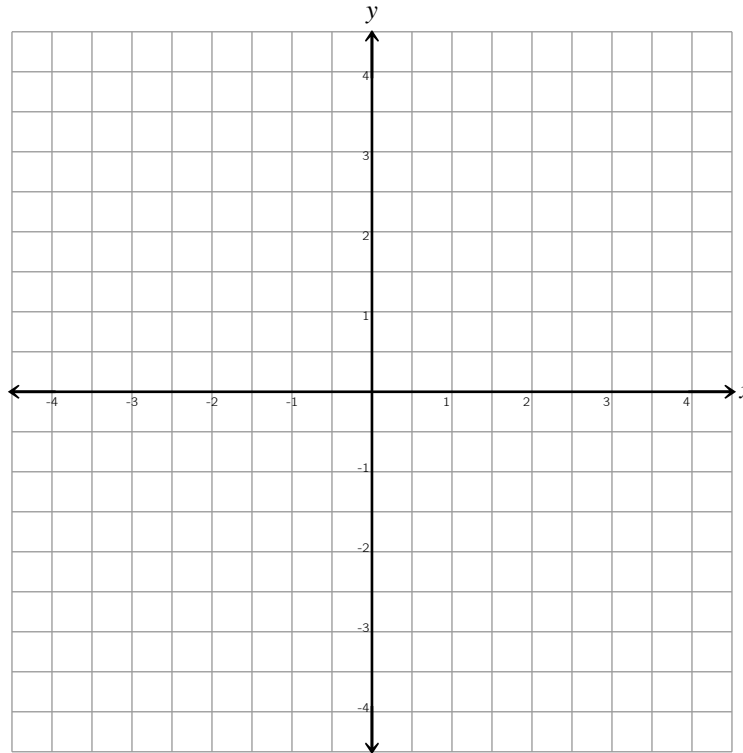
Create a scatterplot of this data.

Select a location on the coordinate grid to plot each point.



5. Plot the points $(-4, 3)$, $(-2\frac{1}{2}, -1\frac{1}{2})$, and $(0, -3)$ on the coordinate plane below.

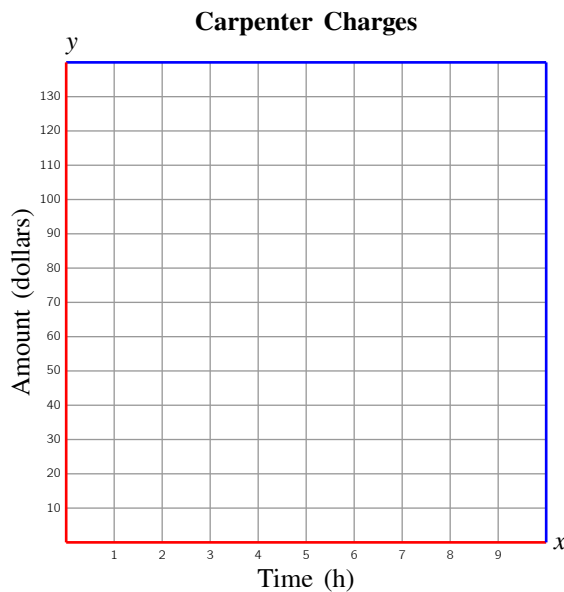
To plot the points, click on the locations represented by the list of ordered pairs.



6. A carpenter charges \$25 to come to a customer's home. Then she charges \$35 per hour for the time she spends working.

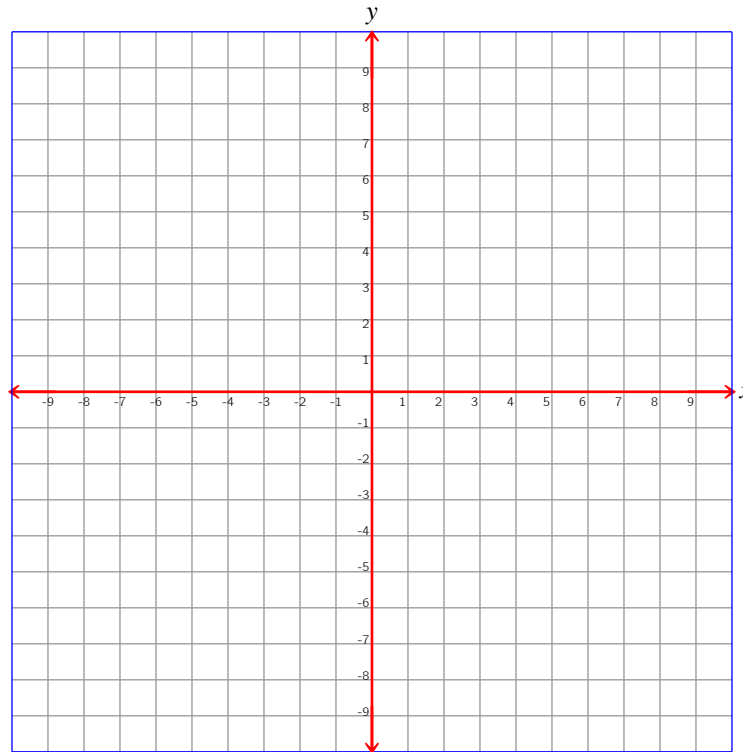
Graph a line that best represents the relationship between x , the number of hours the carpenter works, and y , the amount she charges in dollars.

Select two points on the coordinate grid. A line will connect the points.



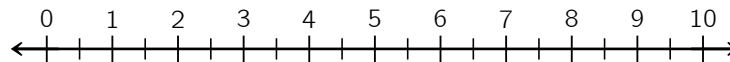
7. Graph the line represented by the equation $3x - 5y = 15$.

Select two points on the coordinate grid. A line will connect the points.



8. Use the number line to represent the solution to $5x \geq 15$.

Select a ray. Move the point on the ray to the correct place on the number line.



9. What is the solution set to the inequality $m - 7 > -2(m + 0.5)$?

Select a ray. Move the point on the ray to the correct place on the number line.

