

Session 2

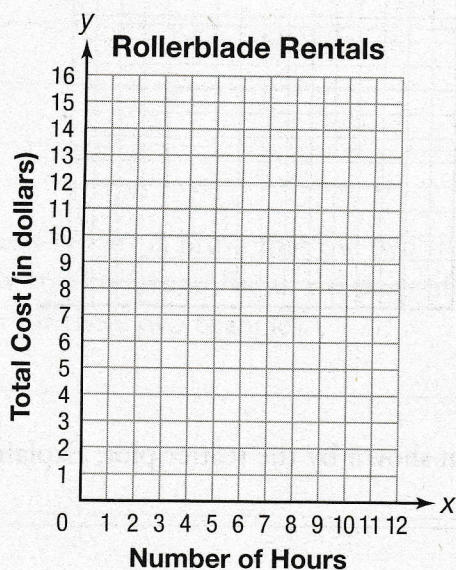
58. Aiden wants to rent rollerblades when he goes to the park. He also needs to rent a helmet. Rates for two rental shops are shown below.

Skate Heaven
\$3 for the helmet plus \$2 per hour for rollerblade rental

Rent-a-Rama
\$1 for the helmet plus \$3 per hour for rollerblade rental

- A. Let y represent the total cost, in dollars, of renting rollerblades and a helmet. Let x represent the number of hours for the rental.

Write a system of equations to represent this problem situation. Then graph the system on the coordinate grid below.



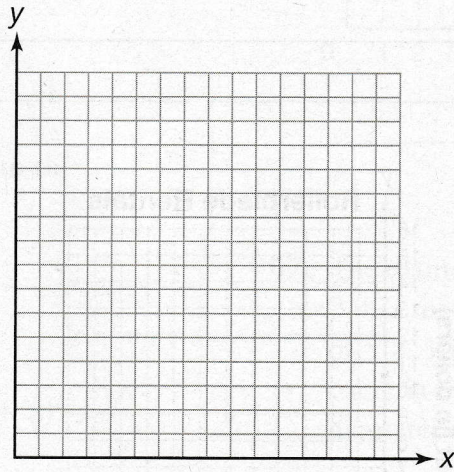
- B. For how many hours would Aiden need to rent rollerblades in order for the total cost to be the same at both shops? What would that total cost be? Use the solution for the system of linear equations to explain your answers.

59. The table below shows the number of years of experience that 8 employees at a supermarket have and their hourly wages.

Experience and Hourly Wage

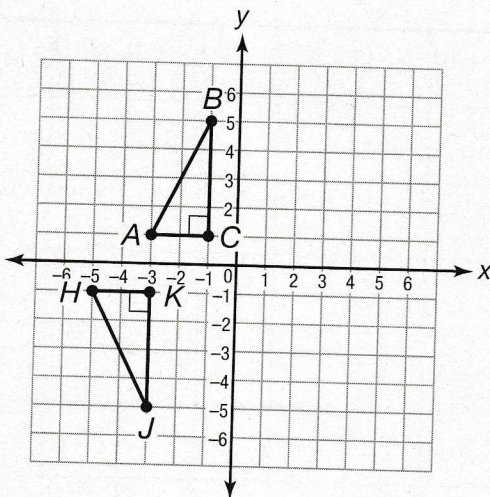
Years of Experience	1	2	2	3	4	5	5	9	9	10
Hourly Wage (in dollars)	\$8	\$8	\$10	\$11	\$10	\$11	\$12	\$14	\$15	\$15

- A. Create a scatter plot of these data on the grid below. Choose a scale that allows you to plot all the data. Be sure to title your scatter plot and label each axis. Then draw a line of best fit for the data.



- B. Describe the association shown by the scatter plot. Explain how you know.

60. Look at $\triangle ABC$ and $\triangle HJK$ below.



- A. Describe how you could use a sequence of two rigid transformations (reflections, rotations, and/or translations) to move $\triangle ABC$ so that it completely covers $\triangle HJK$.

- B. Do the transformations in Part A prove that the two triangles are congruent, similar, or both? Explain how you know and list all the pairs of corresponding sides and corresponding angles for these two triangles.

