

Lesson 1 Problem-Solving Practice

Scatter Plots

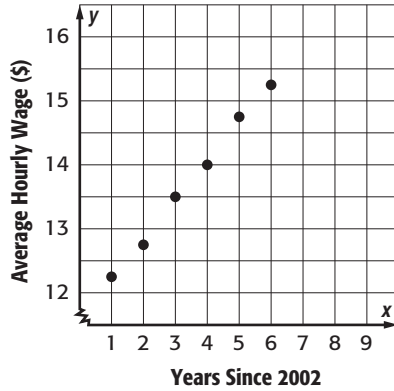
WAGES For Exercises 1 and 2, use the table below.

Years Since 2002	Average Hourly Wage
1	\$12.25
2	\$12.75
3	\$13.50
4	\$14.00
5	\$14.75
6	\$15.25

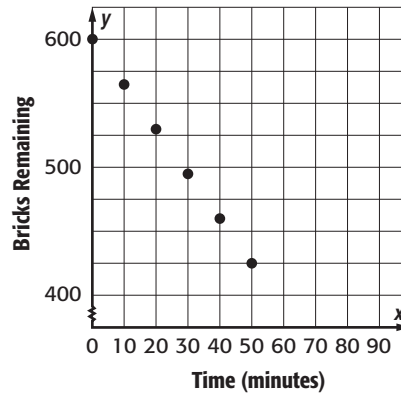
BRICKS For Exercises 3 and 4, use the table below.

Time (minutes)	Bricks Remaining
0	600
10	565
20	530
30	495
40	460
50	425

1. Construct a scatter plot of the data.



3. Construct a scatter plot of the data.



- 2.
- a. Does the scatter plot show a *positive*, *negative*, or *no* association? Explain. **positive; Sample answer: Each year wages increase. The increases are alternating between \$0.50 and \$0.75. There appears to be a linear association.**

- b. If an association exists, make a conjecture about the hourly wages in 2009. **\$16.00**

- 4.
- a. Does the scatter plot show a *positive*, *negative*, or *no* association? Explain. **negative; Sample answers: As time passes, the numbers of bricks yet to be loaded is smaller. There appears to be a linear association.**

- b. If an association exists, make a conjecture about the number of bricks remaining to be loaded after 1 hour and 10 minutes has passed. **355**