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180

**Course 3** • Data Analysis and Statistics

NAME \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**1.** Construct a scatter plot of the data.

Then draw a line that represents the data.

18

16

14

12

10

8

6

4

2

0 1 2 3 4 5 6 7 8 9

**Hours**

**Bags Filled**

**2.** Use the line of best fit to make a conjecture as to how many bags of leaves Haley will have filled at the end of 7 hours of raking.

**Water Left in Pool (gal)**

**FALL Haley has a leaf-raking company to help offset school costs.**

**The table shows how many bags of leaves Haley was able to fill each hour. Use the information in the table to answer Exercises 1 and 2.**

**BABY POOL Cleo’s baby pool has a leak. The scatter plot**

**shows the amount of water left in the pool at the end of each 5-minute segment. Use the information in the scatter plot to answer Exercises 3 and** **4.**

**Problem-Solving Practice**

***Lines of Best Fit***

14

8

5

4

3

**Bags Filled**

5

4

3

2

1

**Hour**

***x***

***y***

***x***

***y***

**4.** Use the equation to make a conjecture about the amount of water left in the pool after 40 minutes.

**3.** Write an equation in slope-intercept form for the line that is drawn.

45

35

25

**Time**

15

5

0

5

15

25

35

45

PERIOD

DATE