Name_____ Date _____

2.3 Practice B

In Exercises 1 and 2, use the graph to write an equation of the line and interpret the slope.

1.

Child's Weight

Weight (pounds)

(5, 40)
40
10
2
20

0
0   2   4   6   x

Age (years)

2.

Flour Remaining

Bread (loaves)

(0, 20)
16
11
(4, 9)
8
4

0
0   2   4   6   x

Flour (cups)
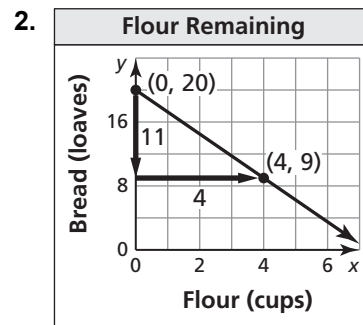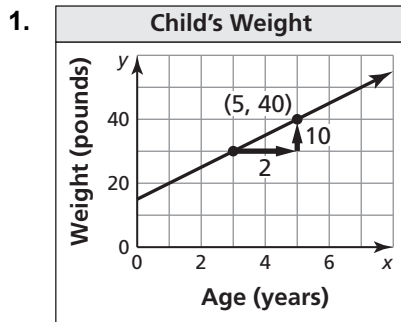
In Exercises 3 and 4, determine whether the data show a linear relationship. If so, write an equation of a line of fit. Estimate y when x = 15 and explain its meaning in the context of the situation.

3.

Days, x	3	7	11	14	20
Number of tickets sold, y	76	164	252	318	450

4.

Minutes running, x	6	10	17	25	40
Calories burned, y	70	118	200	295	472

In Exercises 5 and 6, use the *linear regression* feature on a graphing calculator to find an equation of the line of best fit for the data. Find and interpret the correlation coefficient.

5.

y

4

2

0
0   2   4   6   x

6.

y

4

2

0
0   2   4   6   x