

2-5 Study Guide and Intervention

Modeling Real World Data

Exercises

Determine a linear function to model the situation.

1.

Lincoln High Website														
Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Hits	5	10	21	24	28	36	33	21	27	40	46	50	31	38

2.

Speed (miles per hour)	30	40	50	60	70
Mileage (miles per gallon)	34.0	33.5	31.5	29.0	27.5

3.

x	1	2	3	4	5	6	7	8
y	16	14	11	10	5	2	3	2

4.

x	2	6	9	14	16	21	25	28
y	3	7	15	33	38	35	40	41

5.

x	1	2	3	5	6
y	5	8	8	11	15

6. The table below shows the number of students per computer in United States public schools for certain school years from 1990 to 2000.

Year	1990	1992	1994	1996	1998	2000	2002
Students per Computer	22	18	14	10	6.1	5.4	4.9

- 7.

Years Since 1999	Admission (dollars)
0	\$5.08
1	\$5.39
2	\$5.66
3	\$5.81
4	\$6.03