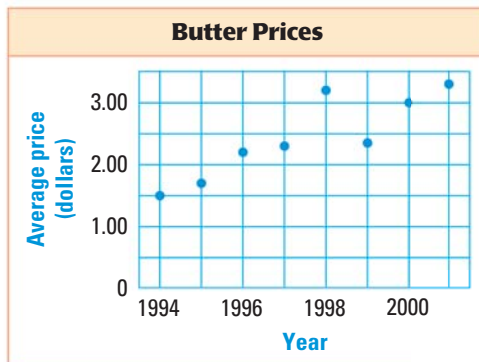## Lessons 5.5–5.7

MULTIPLE CHOICE

1. **SCHOOLS** The table shows the value of primary and secondary schools built in the U.S. each year from 1996 to 2000. Which equation best models the data? *TEKS A.5.C*

Years since 1995, t	0	1	2	3	4
Value v (millions of dollars)	1560	2032	2174	2420	2948

(A) $v = 1594t + 316$

(B) $v = 316t + 1594$

(C) $v = 338t + 1560$

(D) $v = 347t + 1560$

2. **BUTTER** The scatter plot shows the annual average price of 1 pound of butter from 1994 to 2001. If the trend in price continues, which is the best estimate for the price of 1 pound of butter in 2008? *TEKS A.2.D*

Butter Prices

(F) $2.75   (G) $3.50

(H) $4.25   (J) $5.00

3. **MAPS** A map of a city shows streets as lines on a coordinate grid. State Street has a slope of $-\frac{1}{2}$. Park Street runs perpendicular to State Street. What is the slope of Park Street on the map? *TEKS A.6.F*

(A) -2 (B) $-\frac{1}{2}$

(C) $\frac{1}{2}$ (D) 2

4. **HORSES** Gail collected data on the heights and corresponding lengths of a random sample of horses. If she plots the data on a scatter plot, what relationship will she most likely see between height and length? *TEKS A.2.D*

(A) Negative correlation

(B) Positive correlation

(C) Relatively no correlation

(D) Not here

5. **ADVERTISING** The table shows the number of advertisers that used network television for various years during the period 1975–2000.

Year	Advertisers using network TV
1975	513
1980	558
1985	606
1990	630
1995	750

If the trend in the number of advertisers using network television continued, approximately how many advertisers would have used television in 1997? *TEKS A.2.D*

(A) 744   (B) 778

(C) 788   (D) 800

GRIDDED ANSWER ⓪①●③④⑤⑥⑦⑧⑨

6. **BOARD SEATS** The percent of seats that were held by women on the board of directors of Fortune 500 companies from 1995 to 2001 can be modeled by the equation $y = 0.47x + 9.6$ where y is the percent of seats held by women and x is the number of years since 1995. In what year would you expect the percent of seats held by women to reach 15%? *TEKS A.7.C*