



# MIXED REVIEW FOR TEKS



**TAKS PRACTICE**

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## Lessons 4.1–4.3

### MULTIPLE CHOICE

1. **TEMPERATURE** The table shows the low temperature (in degrees Celsius) each day for a particular weekend. Let Friday be day 1, Saturday be day 2, and Sunday be day 3.

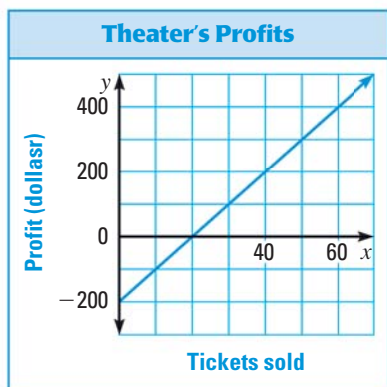
Day	1	2	3
Temperature (°C)	5	-1	-2

If you plotted the data pair for Saturday, in which quadrant would the point lie? **TEKS A.2.C**

- (A) Quadrant I      (B) Quadrant II  
(C) Quadrant III    (D) Quadrant IV
2. **BOOKS** The total cost  $C$  (in dollars) of books at a bookstore is given by the function  $C = 8x$  where  $x$  is the number of books you buy. If you have \$50, what is the greatest number of books you can buy? **TEKS A.4.A**

- (F) 2 books      (G) 3 books  
(H) 6 books      (J) 7 books

3. **THEATER** Which statement is true for the graph shown? **TEKS A.6.D**



- (A) The theater needs to sell 20 tickets in order to earn a profit of \$200.  
(B) The theater will earn a negative profit if it sells fewer than 20 tickets.  
(C) The theater will earn a profit of \$100 if it sells 10 tickets.  
(D) The theater will earn a profit of \$400 if it sells 40 tickets.

4. **CARNIVAL** A carnival charges \$20 for an all-day pass and \$10 for an evening pass. One day the carnival collects \$1000 in pass sales. This situation is modeled by the equation  $1000 = 20x + 10y$  where  $x$  is the number of all-day passes sold and  $y$  is the number of evening passes sold. Which ordered pair is a solution of the equation? **TEKS A.4.A**

- (F) (20, 10)      (G) (25, 25)  
(H) (40, 20)      (J) (50, 10)

5. **HIKING** You hike at an average rate of 3 miles per hour. Your total hiking distance  $d$  (in miles) is given by the function  $d = 3t$  where  $t$  is the time (in hours) you spend hiking. If you hike for 4 hours, what is the range of the function? **TEKS A.5.B**

- (A)  $0 \leq d \leq 3$       (B)  $d \leq 12$   
(C)  $0 \leq d \leq 12$       (D)  $0 \leq t \leq 4$

### GRIDDED ANSWER

6. **CDS** You are selling your old CDs to a store so you can buy new ones. You can sell each old CD for \$3, and each new one costs \$13. You want to make a profit of \$5 so you can buy lunch. This situation is modeled by the equation  $3x - 13y = 5$  where  $x$  is the number of CDs you sell and  $y$  is the number of CDs you buy. If you buy 1 CD, how many CDs should you sell? **TEKS A.4.A**

7. **CLOTHES** The graph shows the possible combinations of T-shirts and tank tops you can buy with the amount of money you have. If you buy only T-shirts, what is the greatest number you can buy? **TEKS A.6.B**

