



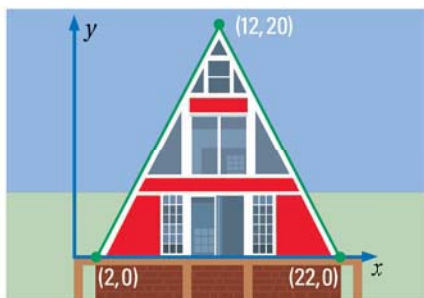
# MIXED REVIEW FOR TEKS

## Lessons 2.5–2.8

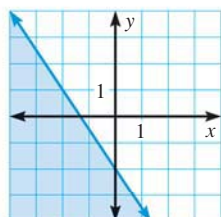
### MULTIPLE CHOICE

1. **ARCHITECTURE** An “A-frame” house is shown below. The coordinates  $x$  and  $y$  are both measured in feet. Which absolute value function models the front of the house?

TEKS 2A.4.B

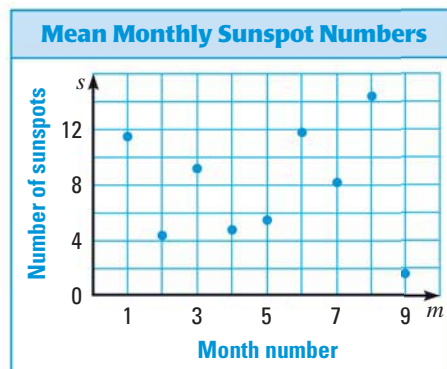


- (A)  $y = -2|x - 12|$   
 (B)  $y = 2|x| + 20$   
 (C)  $y = -2|x - 12| + 20$   
 (D)  $y = 2|x - 12| - 20$
2. **LINEAR INEQUALITIES** The graph of which inequality is shown? TEKS a.5



- (F)  $-x + y \geq 2$   
 (G)  $3x + 2y \leq -4$   
 (H)  $4x + 3y \geq -10$   
 (J)  $9x + 4y \leq -24$
3. **INTERNET COST** The cost of an Internet service subscription varies directly with the length of the subscription. A 3 month subscription costs \$32.85. How much does a 12 month subscription cost? TEKS 2A.10.G
- (A) \$32.85      (B) \$36  
 (C) \$131.40      (D) \$133.33

4. **SUNSPOTS** Based on the data in the graph, which conclusion is most accurate? TEKS 2A.1.B



- (F) The sunspot data show a positive correlation.  
 (G) The sunspot data show a negative correlation.  
 (H) The sunspot data show approximately no correlation.  
 (J) The sunspot data show a strong correlation.
5. **FLOWER SALES** A plant nursery sells marigolds for \$2 per pack and zinnias for \$3 per pack. You have a total of \$30 to spend. Which inequality describes the numbers of packs of marigolds  $m$  and zinnias  $z$  you can buy? TEKS a.3



- (A)  $2m - 3z \leq 30$   
 (B)  $2m + 3z \leq 30$   
 (C)  $3m - 2z \geq 30$   
 (D)  $3m + 2z \geq 30$

GRIDDED ANSWER 0 1 2 3 4 5 6 7 8 9

6. **FUNDRAISERS** You are selling sandwiches and juices to raise money for a class field trip. Your daily sales  $s$  (in dollars) increase for the first several days and then decrease as given by the function  $s(t) = -15|t - 5| + 180$  where  $t$  is the time (in days). What is the maximum amount of money you raised in one day? TEKS a.5