

41. **TX TAKS REASONING** A state agency that offers wild horses for adoption requires that a potential owner reserve 400 square feet of land per horse in a corral.
- Solve** A farmer has a rectangular corral whose length is 80 feet and whose width is 82 feet. Write and solve an inequality to find the possible numbers h of horses that the corral can hold.
 - Explain** If the farmer increases the length and width of the corral by 20 feet each, will the corral be able to hold only 1 more horse? *Explain* your answer without calculating the new area of the corral.
 - Calculate** The farmer decides to increase the length and width of the corral by 15 feet each. Find the possible numbers of horses that the corral can hold. Your answer should include the following:
 - a calculation of the new area of the corral
 - a description of your steps for solving the problem
42. **CHALLENGE** An electronics store is selling a laptop computer for \$1050. You can spend no more than \$900 for the laptop, so you wait for it to go on sale. Also, you plan to use a store coupon for 5% off the sale price. For which decreases in price will you consider buying the laptop?



MIXED REVIEW FOR TAKS

TAKS PRACTICE at classzone.com

REVIEW

Lesson 6.1;
TAKS Workbook

43. **TX TAKS PRACTICE** The cost of parking in a parking garage is described by the function $c(x) = 2(x - 2) + 3$ in which $c(x)$ is the cost and x is the time in hours. If you need to spend less than \$10 for parking, what is the maximum whole number of hours you can park in the garage?

TAKS Obj. 4

- (A) 2 h (B) 3 h (C) 5 h (D) 6 h

REVIEW

Skills Review
Handbook p. 916;
TAKS Workbook

44. **TX TAKS PRACTICE** A couple decided that they would put 12% of their combined annual income of \$89,500 into a retirement fund. Approximately how much will the couple put into the retirement fund?

TAKS Obj. 9

- (F) \$110 (G) \$1,074 (H) \$7,458 (J) \$10,740

QUIZ for Lessons 6.1–6.2

Solve the inequality. Graph your solution.

- $x + 8 \geq -5$ (p. 356)
 - $y + 6 < 14$ (p. 356)
 - $-8 \leq v - 5$ (p. 356)
 - $w - 11 > 2$ (p. 356)
 - $-40 < -5r$ (p. 363)
 - $-93 < 3s$ (p. 363)
 - $-2m \geq 26$ (p. 363)
 - $\frac{n}{-4} > -7$ (p. 363)
 - $\frac{c}{6} \leq -8$ (p. 363)
10. **FOOD PREPARATION** You need to make at least 150 sandwiches for a charity event. You can make 3 sandwiches per minute. How long will it take you to make the number of sandwiches you need? (p. 363)

