


43.  **GEOMETRY** Write an equation in standard form that models the possible lengths and widths (in feet) of a rectangle having the same perimeter as a rectangle that is 10 feet wide and 20 feet long. Make a table that shows five possible lengths and widths of the rectangle.
44. **CHALLENGE** You are working in a chemistry lab. You have 1000 milliliters of pure acid. A dilution of acid is created by adding pure acid to water. A 40% dilution contains 40% acid and 60% water. You have been asked to make a 40% dilution and a 60% dilution of pure acid.
- Write an equation in standard form that models the possible quantities of each dilution you can prepare using all 1000 milliliters of pure acid.
 - You prepare 700 milliliters of the 40% dilution. How much of the 60% dilution can you prepare?
 - How much water do you need to prepare 700 milliliters of the 40% dilution?




MIXED REVIEW FOR TAKS

TAKS PRACTICE at classzone.com

REVIEW

Lesson 3.2;
TAKS Workbook

45.  **TAKS PRACTICE** The dollar amount that a catering company charges for a party is $19x + 100$ where x is the number of guests. If the catering budget for a certain party is \$600, how many guests can attend? **TAKS Obj. 4**

(A) 21 (B) 26 (C) 31 (D) 36

REVIEW

Skills Review
Handbook p. 927;
TAKS Workbook

46.  **TAKS PRACTICE** The amount of liquid that can fill a jar represents the jar's _____. **TAKS Obj. 10**

(F) area (G) surface area (H) volume (J) circumference

QUIZ for Lessons 5.1–5.4

Write an equation in slope-intercept form of the line that passes through the given point and has the given slope m .

1. $(2, 5)$, $m = 3$ (p. 292) 2. $(-1, 4)$, $m = -2$ (p. 292) 3. $(0, -7)$, $m = 5$ (p. 283)

Write an equation in slope-intercept form of the line that passes through the given points.

4. $(0, 2)$, $(9, 5)$ (p. 283) 5. $(5, 7)$, $(19, 14)$ (p. 292) 6. $(4, 24)$, $(-11, 19)$ (p. 292)

Write an equation in (a) point-slope form and (b) standard form of the line that passes through the given points. (pp. 302, 311)

7. $(-5, 2)$, $(-4, 3)$ 8. $(0, -1)$, $(-6, -9)$ 9. $(3, 9)$, $(1, 1)$

10. **DVDS** The table shows the price per DVD for different quantities of DVDs. Write an equation that models the price per DVD as a function of the number of DVDs purchased. (p. 302)

Number of DVDs purchased	1	2	3	4	5	6
Price per DVD (dollars)	20	18	16	14	12	10

