


42.  **MULTIPLE REPRESENTATIONS** A roofing contractor gives estimates for shingling a roof in cost per square, where a square is a 10 foot by 10 foot section of roof. The contractor estimates \$27.50 per square for materials, \$17 per square for labor, \$30 per square for overhead and profit, and a total of \$750 for miscellaneous expenses.
- Writing an Equation** Write an equation that gives the estimate y (in dollars) as a function of the number x of squares of a roof. The contractor gives an estimate of \$2314.50. About how many squares does the roof have?
 - Making a Table** Make a table that shows the estimates for shingling a roof that has 5, 10, 15, 20, or 25 squares. Use your table to check your answer to part (a).
43. **CHALLENGE** A person has quarters and dimes that total \$2.80. The number of dimes is 7 more than the number of quarters. How many of each coin does the person have?




MIXED REVIEW FOR TAKS

TAKS PRACTICE at classzone.com

REVIEW


Lesson 1.5;
TAKS Workbook

44.  **TAKS PRACTICE** A fire truck must travel 7 miles to reach a fire outside of town. If the truck travels 35 miles per hour, how long will it take the truck to reach the fire? **TAKS Obj. 1**

- (A) 5 min (B) 12 min (C) 15 min (D) 20 min

REVIEW

Skills Review
Handbook p. 918;
TAKS Workbook

45.  **TAKS PRACTICE** The trees in a grove have heights of 3.5 meters, 4.2 meters, 5.2 meters, 6 meters, and 5.2 meters. A new tree that has a height of 8.2 meters is planted in the grove. Which measure of data would change the most as a result of planting the new tree? **TAKS Obj. 9**

- (F) Mean (G) Median
(H) Mode (J) Not here

QUIZ for Lessons 3.1–3.3

Solve the equation. Check your solution.

- $x + 9 = 7$ (p. 134)
- $y - 5 = -11$ (p. 134)
- $-7b = -56$ (p. 134)
- $\frac{z}{4} = 6$ (p. 134)
- $-\frac{4}{3}t = -12$ (p. 134)
- $9w - 4 = 14$ (p. 141)
- $23 = 1 - d$ (p. 141)
- $66 = 4m + 7m$ (p. 141)
- $-104 = -5p - 3p$ (p. 141)
- $2v + 5v - 8 = 13$ (p. 148)
- $2a - 6(a - 4) = -4$ (p. 148)
- $\frac{6}{5}(5 - 4g) = -18$ (p. 148)
- INTERNET SHOPPING** Dan purchases DVDs from a website. Each DVD costs \$11, and the shipping and handling fees are \$6.95. Dan is charged a total of \$50.95. How many DVDs did he purchase? (p. 141)