54. **MULTIPLE REPRESENTATIONS** The diagram shows the approximate areas (in square meters) of the square bases for the pyramids of Giza.

a. Making a Table Make a table that gives the following quotients (rounded to the nearest tenth) for each of the 3 pairs of pyramids:

- (area of larger base) ÷ (area of smaller base)
- (side length of larger base) ÷ (side length of smaller base)

For each pair of pyramids, how are the two quotients related?

b. Writing an Equation Write an equation that gives the quotient q of the side lengths as a function of the quotient r of the areas.

55. **CHALLENGE** Write an equation that gives the edge length ℓ of a cube as a function of the surface area A of the cube.

MIXED REVIEW FOR TAKS

TAKS PRACTICE at classzone.com

REVIEW
Lesson 1.6;
TAKS Workbook

56. **TAKS PRACTICE** The graph of a function contains the point (4, 6). Which of the following could NOT be a rule for the function? *TAKS Obj. 1*

(A) $y = x + 2$ (B) $y = \frac{2x}{3}$ (C) $y = 3x - 6$ (D) $y = 4x - 10$

REVIEW
Skills Review
Handbook p. 927;
TAKS Workbook

57. **TAKS PRACTICE** A cup in the shape of a cylinder has a height of 6 centimeters, and its base has a radius of 3 centimeters. How much water will fill the cup? *TAKS Obj. 8*

(F) 12π cm^3 (G) 18π cm^3 (H) 36π cm^3 (J) 54π cm^3

QUIZ *for Lessons 2.6–2.7*

Find the quotient. *(p. 103)*

1. $-20 \div (-5)$ **2.** $-12 \div \frac{2}{3}$ **3.** $\frac{4}{5} \div \left(-\frac{3}{10}\right)$ **4.** $-18.2 \div (-3)$

5. Simplify the expression $\frac{15x - 6}{3}$. *(p. 103)*

6. Tell whether each of the following numbers is a real number, a rational number, an irrational number, an integer, or a whole number: -3, $-\sqrt{5}$, -3.7, $\sqrt{3}$. Then order the numbers from least to greatest. *(p. 110)*

7. Rewrite the following conditional statement in if-then form: "No irrational numbers are negative numbers." Tell whether the statement is *true* or *false*. If it is false, give a counterexample. *(p. 110)*