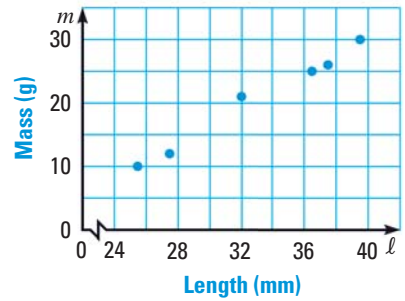
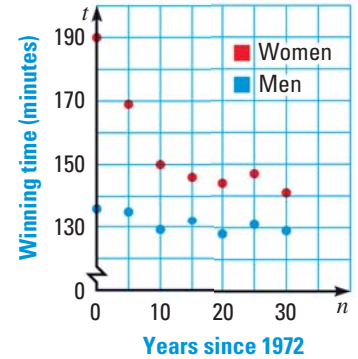


19. **TAKS REASONING** A field biologist collected and measured alligator snapping turtle eggs. The graph shows the mass  $m$  (in grams) of an egg as a function of its length  $l$  (in millimeters).
- Describe** As the lengths of the eggs increase, what happens to the masses of the eggs?
  - Estimate** Is 27.5 g a reasonable estimate for the mass of an egg that is 38 mm long? *Explain.*



20. **TAKS REASONING** Women first officially ran in the Boston Marathon in 1972. The graph shows the winning time  $t$  (in minutes) for both men and women as a function of the number  $n$  of years since 1972 for that year and every five years thereafter.
- CHALLENGE** *Explain* how you can estimate the difference in the men's and women's winning time for any year shown.
  - CHALLENGE** *Compare* any trends you see in the graphs.



**TAKS PRACTICE** at classzone.com

## MIXED REVIEW FOR TAKS

**REVIEW**

Skills Review  
Handbook p. 927;  
TAKS Workbook

21. **TAKS PRACTICE** A cylindrical can has a diameter of 2 inches and a height of 8 inches. What is the volume of the can? **TAKS Obj. 8**
- (A)  $8\pi \text{ in.}^3$       (B)  $16\pi \text{ in.}^3$       (C)  $32\pi \text{ in.}^3$       (D)  $64\pi \text{ in.}^3$

**REVIEW**

Lesson 1.3;  
TAKS Workbook

22. **TAKS PRACTICE** Granite weighs about 1.5 ounces per cubic inch. Which expression gives the weight in ounces of a solid cube of granite that has an edge length of 10 inches? **TAKS Obj. 1**
- (F)  $15^3$       (G)  $1.5^3 \cdot 10^3$       (H) 150      (J)  $1.5 \cdot 10^3$

## QUIZ for Lessons 1.6–1.7

1. The domain of the function  $y = 12 - 2x$  is 0, 2, 3, 4, and 5. Make a table for the function, then identify the range of the function. (p. 35)

Tell whether the pairing is a function. (p. 35)

2.

$x$	5	6	7	11
$y$	1	2	3	7

3.

$x$	4	6	9	15
$y$	1	3	6	3

Graph the function. (p. 43)

4.  $y = 2x - 5$ ; domain: 5, 6, 7, 8, and 9      5.  $y = 7 - x$ ; domain: 1, 2, 3, 4, and 5