

# Chapter 7

## Test A (continued)

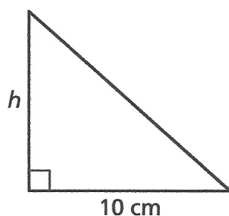
Solve the equation. Check your solution.

14.  $6p - 10 = 8$       15.  $15 = 4w - 5$       16.  $x + 8x = 72$

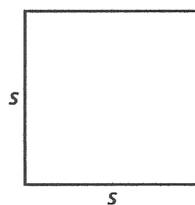
17. A lighting fixture with a support and 4 track lights weighs 3.4 pounds. The support weighs 0.6 pound. Write and solve an equation to find the weight  $w$  of each track light.

Write and solve an equation to find the missing dimension of the figure. Check your solution.

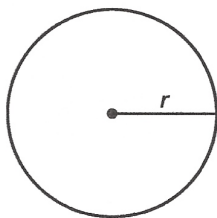
18. Area =  $45 \text{ cm}^2$



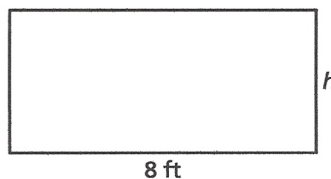
19. Perimeter = 42 in.



20. Circumference = 314 m



21. Area =  $30 \text{ ft}^2$



22. You want to find the diameter of a large circular fountain in the park, but can't measure straight across. Explain how you could measure the circumference of the fountain to estimate the diameter.

23. To install the right size heating and cooling system, you must know how many cubic feet an office building contains. The building is 120 feet wide, 20 feet high, and 48 feet long. Find the volume.

24. A raised gardening bed contains 32 cubic feet of dirt. The bed is 6 feet wide and 8 feet long. How deep is the dirt?

Answers

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

\_\_\_\_\_

18. \_\_\_\_\_

\_\_\_\_\_

19. \_\_\_\_\_

\_\_\_\_\_

20. \_\_\_\_\_

\_\_\_\_\_

21. \_\_\_\_\_

\_\_\_\_\_

22. See left.

23. \_\_\_\_\_

24. \_\_\_\_\_