

# 7.3 Puzzle Time

## What Did One Dog Say To The Other Dog?

Write the letter of each answer in the box containing the exercise number.

Find the hypotenuse  $c$  of the right triangle with the given side lengths  $a$  and  $b$ .

- 1.  $a = 15, b = 20$
- 2.  $a = 5, b = 12$
- 3.  $a = 13, b = 84$
- 4.  $a = 65, b = 72$
- 5.  $a = 6, b = 17.5$
- 6.  $a = 6\frac{2}{3}, b = 7$

Find the side length  $b$  of the right triangle with the given hypotenuse  $c$  and side length  $a$ .

- 7.  $c = 61, a = 11$
- 8.  $c = 82, a = 80$
- 9.  $c = 34, a = 16$
- 10.  $c = 65, a = 63$
- 11.  $c = 13, a = 6.6$
- 12.  $c = 10\frac{3}{5}, a = 5\frac{3}{5}$
- 13. The flap of an envelope has two side lengths that are each 10 centimeters long and meet at a right angle. How long is the envelope? Round your answer to the nearest tenth.
- 14. A middle school gym is 60 feet wide and 100 feet long. If you stand in one corner of the gym, how many feet away is the corner diagonally across from you? Round your answer to the nearest tenth.

### Answers

- T.  $9\frac{2}{3}$
- P. 14.1
- E. 18.5
- D. 18
- N. 25
- U. 9
- O. 97
- H. 116.6
- N. 60
- G. 30
- O. 13
- M. 11.2
- I. 85
- S. 16