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## 20 Word Problems Involving Simple Equations

(Part 5)
18. The area of a circular region is numerically equal to four times the circumference of the circle. Find the length of a diameter of the circle.
19. One leg of a right triangle is 2 inches more than twice as long as the other leg. The hypotenuse is 1 inch longer than the longer of the two legs. Find the length of the three sides of the right triangle.
20. One leg of a right triangle is 1 inches less than twice as long as the other leg. The hypotenuse is 2 inches longer than the longer of the two legs. Find the length of the three sides of the right triangle.

ANSWERS

| $1 .-125$ | 2.56 |
| :--- | :--- |
| 3.8 and 9 or -9 and -8 | 4.7 and 8 or -8 and -7 |
| 5.0 or 4 | 6.1 or 4 |
| 7. 2 or 5 | $8 .-7,-6,6,7$ |
| 9. $-6,-5,5,6$ | 10.20 |
| 11. 4 | 12.2 |
| 13. 10 inches, 6 inches | 14.9 centimeters, 5 centimeters. |
| 15. 2 by 2 inches, 6 by 6 inches | 16.3 by 3 centimeters, 9 by 9 centimeters |
| 17. 6 | 18.16 |
| 19. 5,12, and 13 inches | $20.8,15$, and 17 inches |

"Only he who never plays, never loses."

