

LESSON

Name _____ Date _____

2.5**Practice**

For use with pages 90-95

**get the variable alone*

Solve the equation. Check your solution.

① ~~$z + 6 = 4$~~

$z = -12$

2. $0 = m + 17$

3. $-3 = j + 5$

4. $h + 13 = 21$

5. $9 + g = -20$

6. $-7 + d = -26$

7. $a - 20 = -3$

~~8.~~ $w - 18 = 7$

9. $t - 19 = 23$

⑩ ~~$-9 + b = 1$~~

$2 = k$

11. $-15 = n - 22$

~~12.~~ $27 = x - 14$

13. $-8 + b = -5$

14. $t - 24 = 12$

~~15.~~ $-28 + p = -3$

In Exercises 16–18, write an equation to model the situation. Then solve the equation.

16. Your friend is 3 years older than you. You are 15 years old. How old is your friend?

17. You pay \$1.70 for a box of oatmeal after using a coupon for \$.80 off. Find the regular price of the oatmeal.

18. There are 160 players in a soccer league. This is 23 more than last year. Find the number of players that were in the soccer league last year.

LESSON **2.5** Practice
 Continued For use with pages 90-95

Name _____ Date _____

Solve the equation. Check your solution.

19. $10 + k + 6 = 22$
 $16 + k = 22$
 $k = 22 - 16$
 $k = 6$

20. $-8 - n + 14 = 6$

21. $-9 = -15 + b - 3$

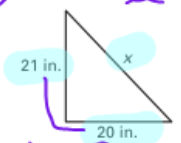
22. $y - 6 - 10 = 0$

23. $-5 - 11 - h = -7$

24. $18 + w - 13 = -20$

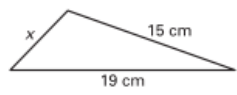
Find the value of x for the given triangle.

25. Perimeter = 70 in.

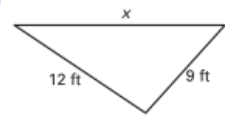


$21 + 20 + x = 70$
 $41 + x = 70$
 $x = 70 - 41$
 $x = 29$

26. Perimeter = 41 cm



27. Perimeter = 37 ft



28. A town has its water tower filled to its capacity, 300,000 gallons. After 30 days the tower has 180,000 gallons. The tower runs out of water 44 days after that.

- a. Find the change in water capacity of the water tower after the first 30 days.
- b. Find the number of days it took the tower to use the 300,000 gallons of water.