

Equations

Guided Practice

Identify the solution of each equation from the list given. (Examples 1 and 4)

1. $9 + w = 17$; 7, 8, 9

2. $8 \div c = 8$; 0, 1, 2



Solve each equation mentally. (Examples 2 and 5)

3. $x - 11 = 23$

4. $4x = 32$

5. Mississippi and Georgia have a total of 21 electoral votes. Mississippi has 6 electoral votes. Use mental math or the *guess, check, and revise* strategy to solve the equation $6 + g = 21$ to find g , the number of electoral votes Georgia has. (Example 3)
6. Riley and her sister collect stickers. Riley has 220 stickers in her sticker collection. Her sister has 55 stickers in her collection. Riley has how many times as many stickers as her sister? Use mental math or the *guess, check, and revise* strategy to solve the equation $55x = 220$. (Example 6)

Independent Practice



Identify the solution of each equation from the list given. (Examples 1 and 4)

1. $29 + d = 54$; 24, 25, 26

2. $35 = 45 - n$; 10, 11, 12



3. $6w = 30$; 5, 6, 7

4. $x \div 7 = 3$; 20, 21, 22

Solve each equation mentally. (Examples 2 and 5)

5. $m + 4 = 17$


6. $12 = 24 - y$

7. $15 - b = 12$

8. $10t = 90$


9. $22 \div y = 2$

10. $54 = 6b$

 **Identify Structure For Exercises 11–13, solve using mental math or the guess, check, and revise strategy.** (Examples 3 and 6)

11. One season, the Cougars won 20 games. They played a total of 25 games. Use the equation $20 + g = 25$ to find g , the number of games the team lost.

12. Five friends earn a total of \$50 doing yard work in their neighborhood. Each friend earns the same amount. Use the equation $5f = 50$ to find f , the amount that each friend earns.

 Last year, 700 students attended Walnut Springs Middle School. This year, there are 665 students. Use the equation $700 - d = 665$ to find d , the decrease in the number of students from last year to this year.



Standardized Test Practice

19. Which of the following statements is true for the equation $6x = 78$?

- (A) To find the value of x , subtract 6 from 78.
- (B) To find the value of x , multiply 6 by 78.
- (C) To find the value of x , add 6 and 78.
- (D) To find the value of x , divide 78 by 6.

30. Gabriella made 36 cookies. She gave away 28 cookies. Use the equation $28 + c = 36$ to find c , the number of cookies she kept.

31. The Lee family ate a total of 12 hotdogs at a cookout. Each family member ate 2 hotdogs. Use the equation $2m = 12$ to find m , the number of members in the Lee family.