Solve It

Name_____

Solve each of the following equations. Show all your work.

Add the same value to each side.	Or subtract the same value from each side.
$x - 6 = 3$	$x + 2 = 7$
$x - 6 + 6 = 3 + 6$	$x + 2 - 2 = 7 - 2$
$x = 9$	$x = 5$

1. $x + 5 = 9$, $x = $ _____

2. $x + 3 = 8$, $x = $ _____

3. $9y = 54$ _____

4. $12y = 48$ _____

5. $3y = 33$ _____

6. $y \div 7 = 2$ _____

7. $y \div 3 = 9$ _____

8. $46 + x = 98$, $x = $ _____

9. $25 + x = 34$, $x = $ _____

10. $35 + x = 42$, $x = $ _____

11. $x - 9 = 15$, $x = $ _____

12. $x - 15 = 15$, $x = $ _____

13. $x - 36 = 39$, $x = $ _____

14. $x - 56 = 0$, $x = $ _____

15. $x - 28 = 49$, $x = $ _____

16. $y \div 5 = 20$ _____

17. $2y = 14$ _____

18. $y \div 6 = 5$ _____

19. $4y = 160$ _____

20. $y \div 9 = 18$ _____

Solve one-step equations using addition or subtraction

Toby's Quiz

Toby completed the following quiz, and it needs to be checked. Write a *C* next to each item that he got correct. Write a ✓ next to any that he got incorrect, and then write Toby a hint about what he should have done differently.

Name __Toby__

1.
$$x + 4 = 8$$
$$x + 4 - 4 = 8 - 4$$
$$x = 4$$

2.
$$x - 5 = 12$$
$$x - 5 - 5 = 12 - 5$$
$$x = 7$$

3.
$$7 + x = 13$$
$$7 - 7 + x = 13 - 7$$
$$x = 6$$

4.
$$x - 8 = 5$$
$$x - 8 + 8 = 5 + 8$$
$$x = 13$$

5.
$$4 + 5 = x$$
$$9 = x$$

6.
$$x = 5 - 2$$
$$x = 3$$

7.
$$x + 5 = 17$$
$$x + 5 - 5 = 17 - 5$$
$$x = 12$$

8.
$$x + 18 = 20$$
$$x + 18 + 18 = 20 + 18$$
$$x = 38$$

9.
$$x + 33 = 49$$
$$x + 33 - 33 = 49 - 33$$
$$x = 16$$

10.
$$x + 34 = 64$$
$$x + 34 - 34 = 64 - 34$$
$$x = 30$$

Solve one-step equations using addition or subtraction

Mystery Number

Use the following clues to determine the mystery number. For each one, write an equation and then solve the equation.

1. When 3 is added to my number, the sum is 38. What is my number?

_____

2. When 15 is subtracted from my number, the difference is 45. What is my number?

_____

3. When my number is added to 18, the sum is 30. What is my number?

_____

4. When 36 is subtracted from my number, the difference is 85. What is my number?

_____

5. When 62 is added to my number, the sum is 130. What is my number?

_____

6. When 49 is subtracted from my number, the difference is 15. What is my number?

_____

7. When 22 is subtracted from my number, the difference is 54. What is my number?

_____

8. When 55 is added to my number, the sum is 108. What is my number?

_____

9. When my number is subtracted from 25, the difference is 7. What is my number?

_____

10. When my number is added to 653, the sum is 1,637. What is my number?

_____

Solve one-step equations using addition or subtraction

Algebra