2.6 Solving Subtraction Equations

p. 74

3/19/18

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Think of equations like a balance scale.

Both sides must have the same quantity to be balanced.

If you add something to one side, you have to add the same thing to the other side.

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Solve y - 23 = 39. Check your answer.

y - 23 = 39

23 is subtracted from y.

+ 23 + 23

Add 23 to both sides to undo the subtraction.

y = 62

Check y - 23 = 39

 $62 - 23 \stackrel{?}{=} 39$ Substitute 62 for y in the equation.

 $39 \stackrel{?}{=} 39 \checkmark 62$ is the solution.

Addition is the inverse, or opposite, of subtraction. If an equation contains subtraction, solve it by adding to both sides to "undo" the subtraction.

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Solve 78 = s - 15. Check your answer.

93=9

_

78=

S-15=73

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Solve z - 3 = 12. Check your answer.

+A +3

15

15-372

Solve a = 7. Check your answer.

1/h +4 Q=11 1-4²=7 7=7/

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Solve
$$57 = c - 13$$
. Check your answer.

$$\frac{C+3=51}{+18+13} = 57 \stackrel{?}{=} 70-13$$

$$\frac{57=57}{(=70)}$$

Solve
$$g - 62 = 14$$
. Check your answer.

$$\frac{+62 + 62}{9 = 76} = 76 - 62 = 14$$

$$14 = 14 \times 76$$

$$\frac{62}{14}$$

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Solve the equation. Check your answer.

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5.
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