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Worksheet 4-10: One-Step Equations

Step 1: Isolate the variable by subtracting, adding, dividing OR multiplying

Hint: Identify the math operation and its opposite operation FIRST!

| | Steps | English |
|----|---------------|--|
| 1. | x + 5 = 25 | "x plus 5 equals 25" Math Operation: Add — Operation: Subtract |
| | <u>-5 -5</u> | Math Operation: Add Opposite Operation: Subtract Step: Isolate x by subtracting 5 from both sides (Simplify) |
| | x = 20 | |
| 2. | y - 7 = 18 | "y minus 7 equals 18" |
| | +7 +7 | Math Operation: Subtract Opposite Operation: Add Step: Isolate y by adding 7 to both sides (Simplify) |
| | <i>y</i> = 25 | |
| 3. | m + 10 = 27 | "m plus 10 equals 27" Math Operation: Opposite Operation: Step: (Simplify) |
| 4. | n - 9 = -12 | "n minus 9 equals -12" Math Operation: Opposite Operation: Step: (Simplify) |

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| | Steps | English |
|----|--|--|
| 5. | 6x = 42 | "6x equals 42" |
| | $\frac{6x}{6} = \frac{42}{6}$ $x = 7$ | Math Operation: Multiply Opposite Operation: Divide Step: Isolate x by dividing both sides with 6 (Simplify) |
| 6. | 9y = -108 | "9y equals -108" |
| • | 7, 100 | Math Operation: Opposite Operation: |
| | | Step: |
| | | |
| | | (Simplify) |
| 7. | $\frac{x}{4} = -8$ $4\left(\frac{x}{4}\right) = 4(-8)$ $x = -32$ | " x over 4 equals -8" Math Operation: Divide Opposite Operation: Multiply Step: Isolate x by multiplying both sides with 4 (Simplify) |
| 0 | $\frac{x}{100} = -2.5$ | "x over 10 equals -2.5" |
| 8. | $\frac{10}{10} = -2.5$ | Math Operation: Opposite Operation: Step: (Simplify) |

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| Steps | English | | | |
|------------------------|--------------------------------|--------------|--|--|
| 9. $\frac{c}{5} = 7$ | " | " | | |
| | Math Operation: Opposite Step: | e Operation: | | |
| | (Simplify) | | | |
| 10. $p-1=10$ | " | " | | |
| | Math Operation: Opposite Step: | e Operation: | | |
| | (Simplify) | | | |
| 11. $w + 8 = -4$ | " | u | | |
| | Math Operation: Opposite Step: | e Operation: | | |
| | (Simplify) | | | |
| 12 . $7a = -49$ | " | ш | | |
| | Math Operation: Opposite Step: | e Operation: | | |
| | (Simplify) | | | |
| 13. $-3x = 36$ | " | u . | | |
| | Math Operation: Opposite Step: | e Operation: | | |
| | (Simplify) | | | |

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| Steps | English | | | |
|---------------------------|-----------------------|---------------------|--|--|
| 14. $x+12=-7$ | " | | | |
| | Math Operation: | Opposite Operation: | | |
| | (Simplify) | | | |
| 15. $y-11=10$ | " | | | |
| | Math Operation: | Opposite Operation: | | |
| | (Simplify) | | | |
| 16. $\frac{w}{-2} = 24$ | w | | | |
| 2 | Math Operation: Step: | Opposite Operation: | | |
| | (Simplify) | | | |
| 17. $\frac{k}{-4} = -2.5$ | " | | | |
| · | Math Operation: | Opposite Operation: | | |
| | (Simplify) | | | |
| 18. $-5x = -42$ | " | u | | |
| | Math Operation: Step: | Opposite Operation: | | |
| | (Simplify) | | | |

Worksheet 4-11: Solving One-Step Equations

Solve. (Always check your answer by substitution!)

1.
$$x-11=22$$

7.
$$\frac{y}{6} = -8$$

2.
$$y + 12 = 28$$

8.
$$\frac{n}{-2} = -18$$

3.
$$m-23=-33$$

9.
$$-12 = \frac{b}{6}$$

4.
$$n+9=-25$$

10.
$$-3k = 33$$

5.
$$7 + a = 21$$

11.
$$-c = -100$$

6.
$$15 = -8 + w$$

12.
$$-125 = 5d$$

Bingo: One-Step Equations

Instructions:

(1) Write numbers 1-9 randomly in the small boxes inside the big squares.

(2) According to each question number, copy the question inside the big square.

(3) Solve each question inside each big square. **Show your steps**.

1.
$$x + 15 = 26$$

2.
$$n-9=-20$$

3.
$$-15 = -6 + w$$

4.
$$4k = -36$$

5.
$$-c = 19$$

6.
$$60 = 5d$$

7.
$$\frac{y}{12} = -6$$

8.
$$\frac{n}{-3} = -100$$

9.
$$5 = \frac{b}{9}$$

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