Mathematics 9 Equation Solving Solving Math 9 Equations Part 2

Over the last couple of classes we have been looking at solving one-step and two-step equations. Today we will look at another new multi-step equation.

Things to Remember

- 1. Isolate the variable by doing the opposite what the question suggest.
- 2. Whatever you do to one side of the equation, you must do the same to the other side.
- 3. Algebra Rules are opposite of BEDMAS Rules. Add & Subtract first, Divide last.
- 4. Always do a check to make sure your answer is correct.

Solve and check the following equations.

A. Equation Type #4 (Multi-Step)

1)
$$4m+6=2m+14$$

$$2m+6=14$$

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$$2m+6=14$$

$$6=-6$$

$$4m=4$$

$$4m + 6 = 2m + 14$$

$$4(4) + 6 = 2(4) + 14$$

$$16 + 6 = 8 + 14$$

$$2a = 22$$

2)
$$x+6=3x+12$$

 $-3 \times +6=3x+12$
 $-3 \times +6=13$
 -6
 -6
 $-2 \times +6=6$
 -6
 -2×-6
 -2×-2

Check

$$X + 6 = 3x + 12$$
 $(-3) + 6 = 3(-3) + 12$
 $3 = -9 + 12$
 $3 = 3 \checkmark$

3)
$$1+5y = -15-3y$$

 $+3y = -15$
 $\frac{4}{8}y = -\frac{16}{8}$
 $y = -2$

4)
$$3a - 8 = 4a - 13$$

 $-a - 8 = -13$
 $-a - 8 = -13$
 $+8 + 8$
 $-/\alpha = -5$
 -1

Check
$$3a - 8 = 4a - 13$$
 $3(5) - 8 = 4(5) - 13$
 $15 - 8 = 20 - 13$
 $7 = 7$

5)
$$4-2n = 4n + 22$$
 $-4n - 4n$
 $-4n = 22$
 $-4n - 4n$
 $-4n = 22$
 $-4n = 22$

Check

$$4 - 20 = 40 + 22$$

 $4 - 2(-3) = 4(-3) + 22$
 $4 + 6 = -12 + 22$
 $10 = 10$

Assignment: Solving Math 9 Equations Part 2 Assignment

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