

Two-Step Equations Notes

Wednesday, January 06, 2021 10:19 AM

Modelling and Solving Two-Step Equations

Isolate the variable by applying opposite operation.

When isolating a variable, follow the reverse order of operations!!!

- Add and/or subtract
- Multiply and /or divide

Example: $4w + 3 = 19$

Step 1: $4w + \cancel{3} = 19$ (subtract 3 both sides)

Apply opposite operation
(add and/or subtract)
the constant from the
side with the variable.

Write down what is left $\frac{4w}{4} = \frac{16}{4}$ (divide by 4 both sides)

Step 2:
Apply opposite operation
(divide and/or multiply)
the coefficient (number
attached to variable)

Write down final answer $w = 4$

Check/verify your answer! $4w + 3 = 19$

Substitute your answer $4(4) + 3 = 19$
Note! When checking your $16 + 3 = 19$
work, go back to completing $19 = 19$
multiplication and division first
then addition or subtraction.

Try it together!

$$2g + 4 = -6$$

$$\text{Check: } 2g + 4 = -6$$

Try it on your own.

$$4r - 2 = 14$$

Check:

Ok, one more!!

$$3 - 3x = -9$$

Check: