

# 7.1 Solving two step equations

## Class Notes

If there was no class lecture this week, write a paragraph about what you learned and/or questions about what you didn't understand.

Topic: \_\_\_\_\_

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Period: \_\_\_\_\_

Date: \_\_\_\_\_

Questions/Main Ideas:

Notes:

AF41 Solving two step equations

So far:

How many steps in each problem? →

$$\begin{array}{r} 1) \quad x + 1 = 7 \\ \quad \quad -1 \quad -1 \\ \hline \end{array}$$

$$\begin{array}{r} 2) \quad 2x = 10 \\ \quad \quad \underline{x} \quad \underline{2} \\ \quad \quad x = 5 \end{array}$$

one step

So far we have either only done only addition or subtraction or multiplication or division but not both at the same time.

What is in this problem? →

$$\begin{array}{c} \downarrow \\ x + \end{array}$$

$$\begin{array}{r} 3x + 1 = -14 \\ \quad \quad -1 \quad -1 \\ \hline \end{array}$$

$$\begin{array}{r} 3x = -15 \\ \quad \quad \underline{3} \quad \underline{3} \\ \quad \quad x = -5 \end{array}$$

- (has multiplication & addition)
- ① simplify both sides.
  - ② remove any addition or subtraction first.
  - ③ then get rid of multiplication & division.
  - ④ simplify / solve.

Summary: Example

$$\begin{array}{r} 3n - 6 = 15 \\ \quad \quad +6 \quad +6 \\ \hline \end{array}$$

$$\begin{array}{r} 3n = 21 \\ \quad \quad \underline{3} \quad \underline{3} \\ \quad \quad n = 7 \end{array}$$

undo  
 remove subtraction  
 undo  
 remove multiplication

Questions/Main Ideas:	Notes:
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How do you check your solution in a two step equation?

$$3n - 6 = 15$$

$$n = 8$$

$$\rightarrow 3(7) - 6 = 15$$

$$21 - 6 = 15$$

$$15 = 15$$

check

true so 15 is the solution

word problems

Mr. Mameyan has ~~\$~~ \$100 dollars in his bank account for his nephew. If his nephew gets \$10.00 for every A he gets how many A's will his nephew need to have a total of ~~\$~~ \$250.00?

- let a represent # of A's need
- what is the question asking?
  - \* asking for # of A's
  -
- what do you know?
  - have \$100 already
  - get \$10.00 per A so 10a

$$100 + 10a = 250$$

$$\begin{array}{r} -100 \\ \hline 10a = 150 \\ \underline{10} \quad \underline{10} \\ a = 15 \end{array}$$

Summary:

His nephew needs ~~to~~ 15 ~~is~~ A's

IC PB ~~pg. 7-1~~  
 HW pg 338-~~339~~ 339 (12-38 even)