

# 3.4 Solving Inequalities Using Addition or Subtraction

*I can solve inequalities using addition or subtraction.*

## **Option One:**

Watch the videos, take notes on the handout, and complete your homework.

1. Watch the videos and take notes. You will hand in the notes with your homework.
  - A. <https://www.khanacademy.org/math/algebra-basics/core-algebra-linear-equations-inequalities/core-algebra-linear-inequalities/v/one-step-inequalities>
  - B. [http://www.virtualnerd.com/tutorials/?id=Alg1\\_5\\_1\\_11](http://www.virtualnerd.com/tutorials/?id=Alg1_5_1_11) (stop at 1:28)
2. Homework.
3. Practice in IXL, level 8, V.1, V.2, V.3, V.4.

## **Option Two:**

Teacher led explanation, takes notes, and complete your homework.

1. Teacher will teach lesson.
2. Homework.
3. Practice in IXL, level 8, V.2, V.2 V.3, V.4.

### 3.4 Solving Inequalities Using Addition or Subtraction - Notes

<https://www.khanacademy.org/math/algebra-basics/core-algebra-linear-equations-inequalities/core-algebra-linear-inequalities/v/one-step-inequalities>

Solve for  $x + 8 \leq 6$  and graph the solution.

Steps:

Words:

	Subtract _____ from both sides.
	Simplify.
	Graph on a _____.

<http://www.virtualnerd.com/algebra-1/linear-inequalities/solve-by-addition-subtraction/solve-by-addition/add-example-solution>

Solve for  $m$ .

Steps:

Words:

	Write original inequality.
	Add _____ to each side.
	Simplify.

Stop the video at 1:28!!

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

## 3.4 Solving Inequalities Using Addition or Subtraction - Homework

Solve the inequality. Draw a number line and graph your solution.

1.  $n + 7 > 3$

2.  $10 \geq y + 4$

3.  $-6 \leq x - 9$

4.  $z - 5 < 1$

5.  $x + 4 < 5$

6.  $m + 8 \geq 12$

7.  $-11 < y + 5$

8.  $-8 \geq d - 7$

9.  $-45 > g - 16$

10.  $z - 15 > 72$