

# September 10, 2014 <sup>1st</sup> <sub>2nd</sub>

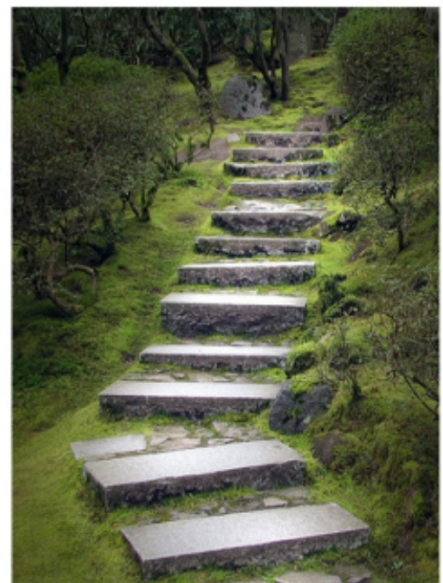
Starter

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## YOGI'S STAIRS

A yogi has a very specific way of climbing his steps in the morning. First he climbs to the middle step and meditates for 1 minute. Then, he climbs 8 steps and faces east until he hears the birds singing. Next, he walks down 12 steps and picks up a pebble. He takes one step up and tosses the pebble over his left shoulder. Now, he walks up the remaining steps 3 at a time which only takes him 9 paces.

How many steps are there?



## 9/10 Subtracting Integers using Rules

### **Quick Write:**

How are  $4-2$  and  $4+(-2)$  basically the same?

- Adding a negative is just like subtracting a positive.
- Just written differently
- Adding a negative and subtracting both go "lower"

Since  $4-2$  and  $4+(-2)$  are basically the same we can use them to make a rule for subtract:

$$a - b = a + (-b)$$

Add the opposite.  
 $4 + \bar{2}$

## Subtract.

1.  $3 - 8 = -5$   
Change sub to add  
Make 8 negative

3.  $-10 - 9 = -19$   
change  
change

2.  $6 + (+7) = 13$   
changed to ADD  
changed to POSITIVE

4.  $-5 + (-4) = -9$   
change change  
Never change the first #.

change  
change

$$5. \quad 11 + (+2) + 14$$

11 + (+2)

$$= 13 + 14$$
$$= 27$$

change both

$$6. \quad -16 + (+12) + (-8)$$

-16 + (+12)

$$= -24 + 12$$
$$= -12$$

$$7. \quad 6 + (-17) + (-4)$$

+(-17) + (-4)

$$= -21 + 6$$
$$= -15$$

Homework

Due