SSR

Read at a Level 0 until 9:15

Oct 21-9:14 PM

Subtracting Integers Opener

1. A bird is flying at an altitude of 50 feet above sea level when he sees a bird feeder 45 feet below. He cruises down to get some food, and then flies to his nest in a tree 10 feet above the feeder. Write an addition expression to model the bird's travels, and then determine the height of the nest.

$50+-45+10$

$60+-45$

$=15$

2. A map is drawn using a scale of ½ in = ¼ mile. If two streets appear 3 inches apart on the map, how many miles apart are they?

$1\frac{1}{2}$

$\frac{1/2\text{in}}{1/4\text{mi}} \nearrow \frac{3\text{in}}{x}$

$\frac{1}{2}x = \frac{3}{4} \cdot \frac{2}{1} = \frac{6}{4}$

3. It is recommended that adults drink 64 ounces of water a day. If I drink about 40 ounces a day, what percentage of the daily recommendation do I consume?

$\%\times op = np$

$\%\times 64 = 40$

$64\overline{)40}$ $.625$ $.63$

63%

May 15-10:26 AM

Learning Target

I understand the relationship between subtraction and addition.

I can subtract integers.

May 15-10:28 AM

Subtracting Integers - Group Inquiry

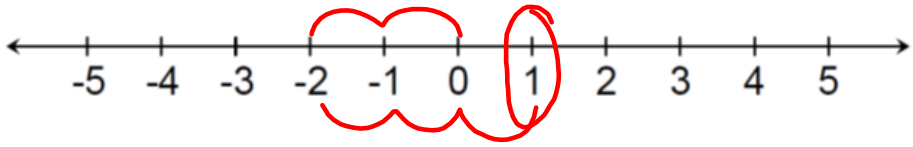
Complete with your table. We will discuss your thoughts on #7 and 8 in about 10 minutes.

May 15-10:34 AM

7. Look at your answers for questions 3 and 6. What do you notice? Explain below how subtraction relates to addition.

Addition + Subtraction are opposites. Subtraction is the same as adding the additive inverse.

8. Consider the problem -2 – (-3). Use the number line and your thoughts above to try and discuss with your table how you may get an answer to this problem.



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Subtracting Integers – Notes

Subtraction is the same as ___adding___ **the** ___additive___ ___inverse___ (___opposite___).

Examples:

-3 – (7)

$-3+-7=-10$

6 – (-9)

$6+9=15$

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Table Practice

-6+17

Rewrite each problem below as an equivalent addition problem.

1. -5 -8 → -5+-8
2. 6 – (-5) → 6+5
3. -2 -8 → -2+-8
4. -3 – 9 → -3+-9
5. 17 – 8 → 17+-8
6. 4 – (-12) → 4+12

Rewrite each problem below as an equivalent addition problem, then simplify.

7. 3 – (-8) → 3+8=
8. -4 – (-16) → -4+16=
9. 12 – (-9) → 12+9=
10. 7 – (-8) → 7+8=
11. -12 – 8 → -12+-8=
12. 4 – (-9) → 4+9=
13. 1 – (-10) → 1+10=
14. -3 – (-8) → -3+8=
15. -20 – (-18) → -20+18=

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Summary

On the back of your opener, please solve the following problems (make a pile on your table when you finish):

1. -3 + 9
2. -3 + (-9)
3. -3 - (-9)
4. -3 - 9

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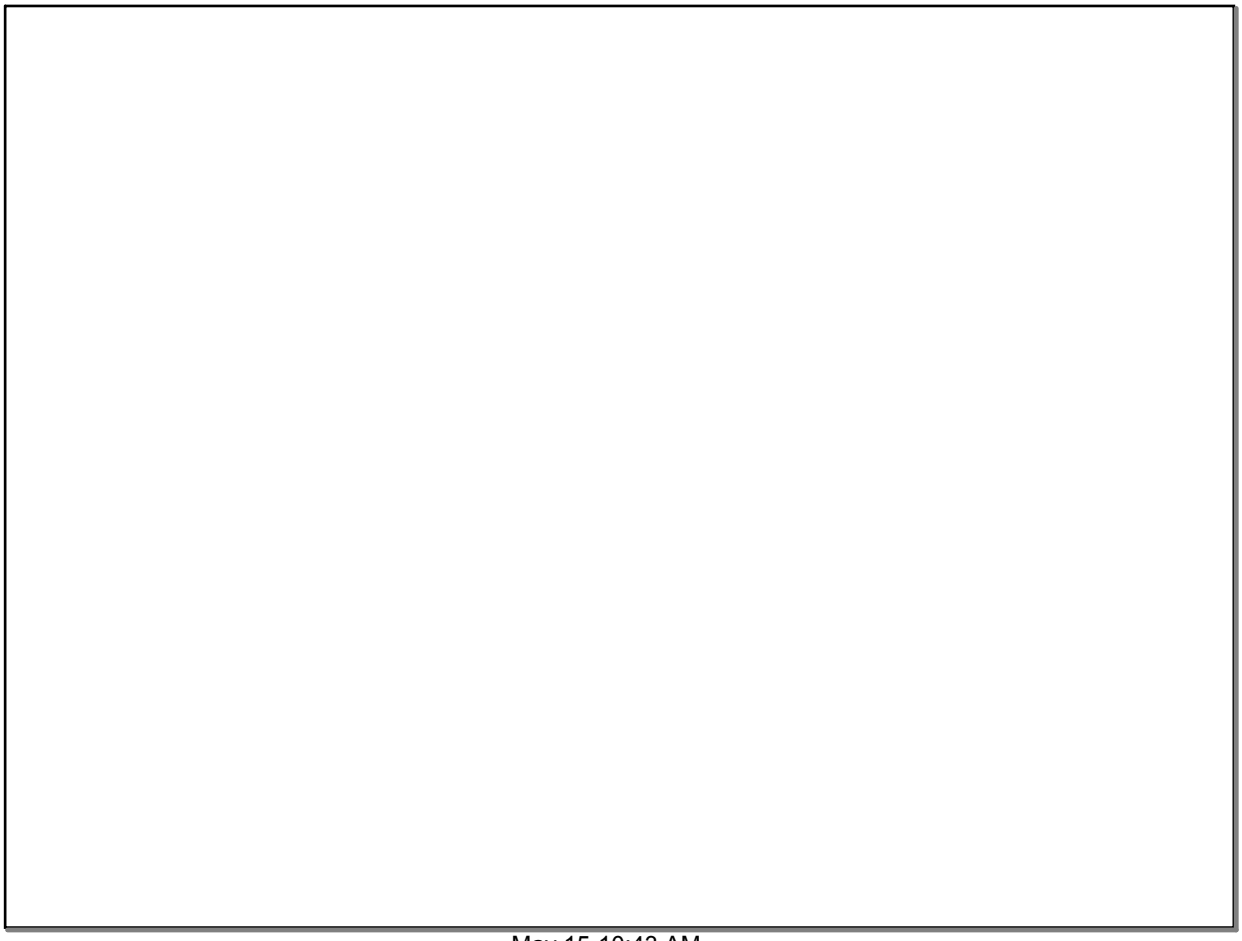

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