

- Agenda
- Pencil
- Correcting Pen
- 3-ring binder

Continue working on Spiral Review 1 corrections or 2 that is due tomorrow, and start correcting hw.

Incomplete/NO hw - fill out slip on back table.

Explain how to find each difference using counters. (Explore Activity 1)

1. $5 - 8 = \underline{-3}$
 Start with 5 positive counters. Add 3 zero pairs and remove 8 positive counters. 3 negative counters are left, so the difference is -3 .

2. $-5 - (-3) = \underline{-2}$
 Start with 5 negative counters. Remove 3 negative counters. 2 negative counters are left, so the difference is -2 .

Use a number line to find each difference. (Explore Activity 2)

3. $-4 - 5 = -4 + \underline{(-5)} = \underline{-9}$

4. $1 - 4 = 1 + \underline{-4} = \underline{-3}$

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5. $8 - 11 = \underline{-3}$

6. $-3 - (-5) = \underline{2}$

7. $15 - 21 = \underline{-6}$

8. $-17 - 1 = \underline{-18}$

9. $0 - (-5) = \underline{5}$

10. $1 - (-18) = \underline{19}$

11. $15 - 1 = \underline{14}$

12. $-3 - (-45) = \underline{42}$

13. $19 + (+19) = \underline{38}$

14. $-87 - (-87) = \underline{0}$

15. How do you subtract an integer from another integer without using a number line or counters? Give an example.

To subtract an integer, add its opposite. Sample

example: $6 - 8 = 6 + (-8) = -2$.

$8 + (-5)$

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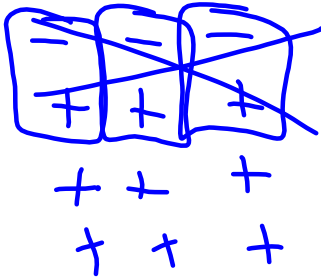
ADDING INTEGERS

Same signs add and keep

$$3 + 9 = 12 \quad -3 + (-12) = -15$$

Different signs subtract - Use the sign of the bigger number than you'll be exact.

$$-3 + 9 = 6 \quad 3 + (-9) = -6$$



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$$-12 + (-66) + (-48) \begin{array}{r} 12 \\ 66 \\ +48 \\ \hline \end{array}$$

-126

Anna made withdrawals from her bank account of \$60, \$85, and \$115. Write and solve an addition problem that shows her withdrawals as negative integers.

$$(-60) + (-85) + (-115)$$

-260

$$-76 + (-124)$$

-200

$$\begin{array}{r} 124 \\ 76 \\ \hline 200 \end{array}$$

Eli had mini-golf scores of -3 , -4 , and -3 . What was his total score for the three rounds?

$$(-3) + (-4) + (-3) = -10$$

A football team receives a 5-yard penalty on one play and a 10-yard penalty on the next. Write a sum of negative integers to represent this situation.

$$-5 + (-10) = \boxed{-15}$$

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1. Use a number line to show the sum of $6 + (-7)$. $= -1$



2. Sketch 9 red counters and 4 yellow counters. How many zero pairs can you make? How many counters do you have after you remove the zero pairs? What do they represent?

$$-9 + 4 = -5$$



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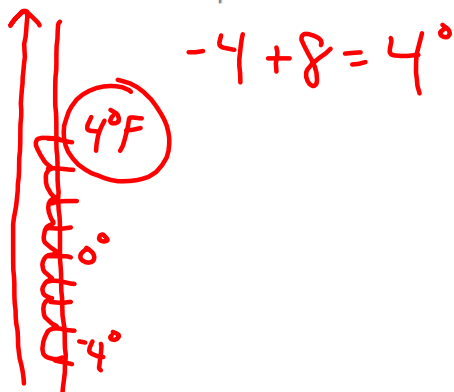
Find the sum of $15 + (-6)$.

$$9$$

A football team lost 5 yards on one play and gained 12 yards on the next play. Write a sum of integers to find the overall change in field position. Explain your answer.

$$-5 + 12 = 7$$

At 7 A.M. the temperature was -4°F .
At 9 A.M. it was 8 degrees warmer.
What was the temperature at 9 A.M.?



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Problem	Model	Number Line	K C C Make 2 Marks!
$-3 - (-5)$		$-3 - (-5) = -3 + 5$ 3 0 2	K C C $-3 + (+5)$ $-3 + 5 = 2$
$-5 - (-3)$		$-5 - (-3) = -5 + 3$ -5 0 2	K C C $-5 + (+3)$ $-5 + 3 = -2$
$5 - 8$		$5 - 8 = 5 + (-8)$ 5 0 5	K C C $5 + (-8)$ $5 + (-8) = -3$
$-5 - (-8)$			

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Use a number line to find each difference.

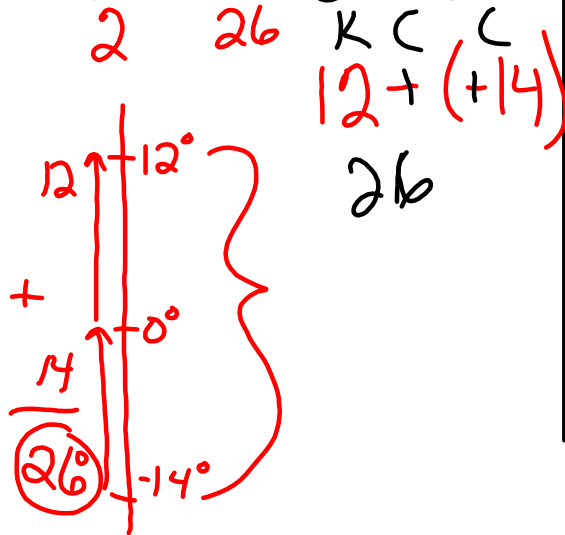
$-2 - (-4) = 2$

$-5 - (-4) = -1$

Explain how to find $5 - 7$ by using counters.

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At 8 A.M. the temperature was -14°F . By noon, the temperature was 12°F . Find the difference in temperature. Did it rise or drop?



When Iris subtracted $-12 - (-12)$, she got a difference of -24 . Is her answer correct? If not, what mistake did she make?

0

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Homework
Worksheet Due Tuesday
Adding and Subtracting Integers Test
is on Tuesday, September 4.

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