

AGENDA

- WARM-UP
- Review Homework
- Subtracting Integers
 - chips
 - examples
 - notes
 - practice
- EXIT TICKET

WARM-UP

What are the TWO strategies to add integers?

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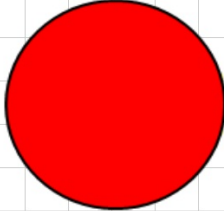
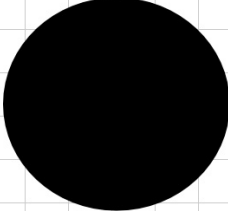
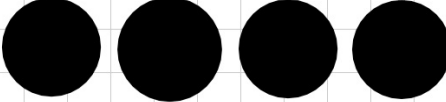
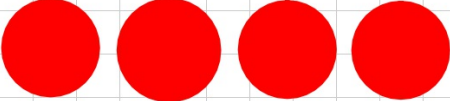
How do you know zero is a neutral number?

Solve.

a) $-1 + 7$

c) $-15 + -4$

b) $500 + -3$

Topic: Subtracting Integers	<u>Lesson Essential Question</u> What methods can we use to subtract integers?
Chip Method a.k.a. Plus/Minus	<p>remember to make</p>    <p> represents _____</p> <p> represents _____</p>

In order to subtract integers using chips...

Create zero pairs for the value you want to subtract.

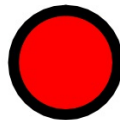
Example1: $2 - (-1) =$



Example2: $3 - 4 =$

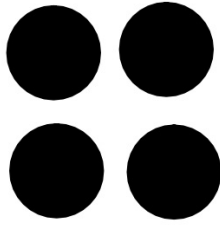


Example3: $-1 - 3 =$



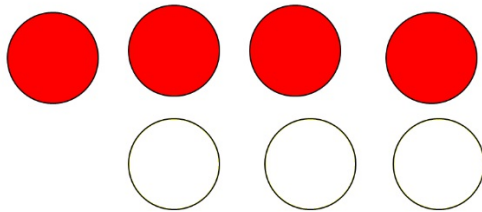
Try These with your Chips

1) $4 - (-2) =$



Now write an addition problem with the same answer.

2) $-4 - 2 = -6$



Now write an addition problem with the same answer.

Topic: Subtracting Integers	<u>Lesson Essential Question</u> What methods can we use to subtract integers?
Flowchart Method	<p>SUBTRACTING Integers</p> <p>Rewrite an addition problem Add the opposite or "same-change-change"</p> <p>↓</p> <p>Same Sign ADD</p> <p>↓</p> <p>Keep the sign</p> <p>↓</p> <p>Different Signs SUBTRACT</p> <p>↓</p> <p>Keep the sign of the greatest absolute value</p>

<p>Topic: Subtracting Integers</p>	<p><u>Lesson Essential Question</u> What methods can we use to subtract integers?</p>								
<p>Flowchart Method</p> <p>What does "Same, change, change" mean?</p>	<p>"Same-change-change"</p> <p>Let's look closer at what this means...</p> <ul style="list-style-type: none"> ○ keep the first value ○ change subtraction into addition ○ change the second value to its opposite ○ then use rules for addition <p>For example:</p> <table style="width: 100%; border: none;"> <tr> <td style="padding: 5px;">$3 - (-4)$</td> <td style="padding: 5px;">$(-8) - (-4)$</td> </tr> <tr> <td style="padding: 5px;">$3 + 4$</td> <td style="padding: 5px;">$-8 + 4$</td> </tr> <tr> <td style="padding: 5px;">$-5 - 9$</td> <td style="padding: 5px;">$6 - 7$</td> </tr> <tr> <td style="padding: 5px;">$-5 + 9$</td> <td style="padding: 5px;">$6 + -7$</td> </tr> </table>	$3 - (-4)$	$(-8) - (-4)$	$3 + 4$	$-8 + 4$	$-5 - 9$	$6 - 7$	$-5 + 9$	$6 + -7$
$3 - (-4)$	$(-8) - (-4)$								
$3 + 4$	$-8 + 4$								
$-5 - 9$	$6 - 7$								
$-5 + 9$	$6 + -7$								

Subtract the integers.

$$(-6) - (0) =$$

$$(-7) - (+8) =$$

$$(-5) - (+3) =$$

$$(+2) - (-6) =$$

$$(+2) - (+8) =$$

$$(-8) - (-8) =$$

$$(-7) - (+1) =$$

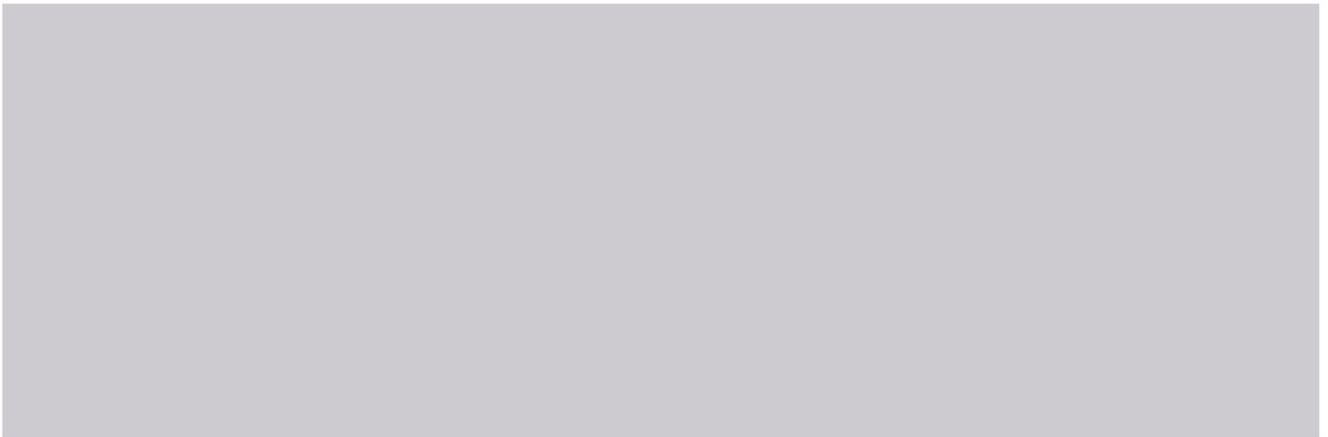
$$(+1) - (+9) =$$

$$(0) - (+8) =$$

$$(+9) - (-6) =$$

$$(-2) - (-6) =$$

$$(+5) - (+3) =$$





1) What phrase helps you remember how to subtract integers?

2) $-7 - (-7)$

3) $4 - (-6)$

4) $-15 - 12$

5) $23 - 9$

HW: Complete Handout

AGENDA

- WARM-UP
- Review Homework
- Integers
 - sign your name
- Integer War
 - if time allows
- Homework
 - study for quiz



WARM UP

1. $(-7) - 4$

2. $-9 + (-2)$

3. $2 - 13$

4. $4 + (-3)$

5. The results at the end of each quarter at an NBA game the Hornets were... down by 1, then up by 3, down by 8, and then down by 3. How close were they to winning at the end of the game? Write a number sentence.

Two blue rectangular boxes for writing the answer to question 5.