

**Warm Up- on half sheet of paper**

1) What is the opposite of 36? **\*\*Turn into tray by my desk when done.**

2) Order from least to greatest.  
-3, 6, -5, 2, 0, -8

3) Compare using <, >, or =.  
-6 -2

4) Compare using <, >, or =.  
1 -3

5) What is the absolute value of -68 ?

6) What is the absolute value of 12 ?

Sep 6-7:32 AM

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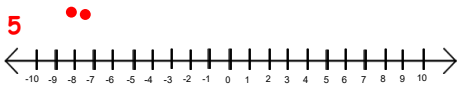
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What is the opposite of \_\_\_\_?


**A. 5**



**B. -3**



**C. -7**



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Integers increase in value as you move from the left to right.  
They decrease in value as they move to the left.

-6  -2

1  -3

-7  4

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Order the integers from least to greatest.

-3, 6, -5, 2, 0, -8



-3, -9, 16, 1, -2, 2, 0, -8, -13



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Absolute Value

a numbers distance from 0 on a number line.  
distance can **NEVER** be **NEGATIVE** so absolute values are always **POSITIVE!!!**

| 7 |

How far is 7 from 0?



| -4 |                      | -7 | \_\_\_ | -8 |

| 8 |                        | -44 | \_\_\_ 43

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**Warm up** **9.1.2015**

- The Smarts answered a 200 point question incorrectly, a 250 point question correctly, and an 100 point question correctly. If their final score was 0, give the point value of the final question.
- Give 2 numbers that meet the following conditions:  
Both numbers are greater than -10, but less than 5.  
The distance between the numbers is 6.
- $\frac{5}{6} - \frac{2}{9}$
- $1 \frac{10}{11} - 1 \frac{1}{3}$

**1. -150    2. EX: -9, -3    3. 11/18    4. 19/33**

Aug 31-3:55 PM

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### Homework Solutions - Workbook pg. 60-61



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**LAB 2-A**

Name \_\_\_\_\_

Group members \_\_\_\_\_

Date \_\_\_\_\_

**PEBBLE MODEL 1**

**Materials:** Colored chips

Solve as a group. Write your answers on your own paper. Write legibly and explain your answers.

**Key**

● = -1

○ = +1

1. a. Use your chips to make +5. Draw the model for +5.

b. Draw two more models for +5.

c. What is the minimum number of chips you need to represent +5? Why?

d. Draw a representation of +5 that uses 7 chips. Now use 9 chips, 12 chips, and 15 chips and draw the representations. What do you notice?

2. a. Use your chips to make -4. Draw the representation for -4.

b. Draw two more representations for -4.

c. What is the minimum number of chips needed to represent -4? Why?

Explorations in Algebra © 2003 2-17

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**LAB 2-A**

Page 2 of 2

d. Draw a representation of -4 that uses 6 chips. Now use 8 chips, 12 chips, and 17 chips and draw the representations. What do you notice?

e. Find a representation for -4 that could model this number sentence:  $+6 + (-10) = -4$ . Explain your representation.

3. a. Show at least three ways to represent 0.

b. Is 0 positive or negative? Support your answer.

4. a. How are the representations for +6 and -6 alike?

b. How are they different?

5. What ideas have you discovered about positive and negative numbers?

2-18 Explorations in Algebra © 2003

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1. Model each expression with positive (+) and negative (-) signs.

$$-5 + -6$$

$$5 + 2$$

$$4 + 3$$

$$-7 + -8$$

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When you model adding numbers with different signs, you can add "zero pairs" to have what's needed.

$$3 + -4$$



$$4 + -6$$



$$-5 + 2$$

$$-1 + 4$$

Oct 12-4:46 PM

### Adding Integers...

SAME SIGNS ADD AND KEEP,  
DIFFERENT SIGNS SUBTRACT,  
KEEP THE SIGN OF THE HIGHER Value  
THEN YOU'LL BE EXACT!

Oct 15-4:22 PM

**1.)**  $4 + (-7)$       **2.)**  $-5 + (-4)$

**Examples!** **3.)**  $-5 + 1$       **4.)**  $5 + 8$

**5.)**  $-8 + (-4)$       **6.)**  $15 + (-4)$

**7.)**  $-25 + 10$       **8.)**  $-7 + 6$

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Evaluate  $a + b$  for the given values.

**1.**  $a = 6, b = -10$

**2.**  $a = -5, b = -15$

**3.**  $a = 12, b = -14$

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The temperature dropped 17 degrees in 6 hours. If the final temperature was -3 degrees, what was the starting temperature?

A football team loses 11 yards and then gains 8 yards back on the next play. What is the teams total yardage?

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Solve each equation.  
Move the box to check your answer.

$(-8) + (-2) =$	<input type="checkbox"/>
$(-9) + (+8) =$	<input type="checkbox"/>
$(+7) + (-4) =$	<input type="checkbox"/>
$(+5) + (-4) =$	<input type="checkbox"/>
$(-1) + (+1) =$	<input type="checkbox"/>
$(-7) + (-3) =$	<input type="checkbox"/>
$(-5) + (-4) =$	<input type="checkbox"/>
$(-9) + (+3) =$	<input type="checkbox"/>

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**Good Morning 4th Block!**

Please find something quiet to work on.  
This is silent study hall.

- organize your binder/notebook
- work on homework
- read

Last night's homework: Completing the Squares worksheet  
(show work with subtraction)

Sep 2-7:28 AM

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**Warm up** 9.2.2015

1.) $4 + (-7)$	2.) $-5 + (-4)$
3.) $-5 + 1$	4.) $18 + (-12)$
5.) $-23 + (-3)$	6.) $-55 + 5$

7.) Identify the temperature that is halfway between -10 and 12.

1. -3   2. -9   3. -4   4. 6   5. -26   6. -50   7. 1

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Honors homework - Completing the Square

1. 

-5	4	
-8	2	

2. 

-6	2	
-1	-2	

3. 

7	-3	
5	-6	

4. 

-3	-4	
4	-2	

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Honors homework - Completing the Square

5. 

-4	-2	-6
6	1	

6. 

	1	-8
1		-3
	5	

7. 

-1	-6	-7
-3	-2	

8. 

-4	5	
2		0

Sep 2-7:19 AM

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### Subtracting Integers

There are no subtraction problems when using integers. All subtraction problems are changed to addition problems using....

**KEEP...&...ADD...the...OPPOSITE**

Oct 16-3:30 PM

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<b>K</b>	+	<b>O</b>
<b>5</b>	-	<b>9</b>
↓	↓	↓
KEEP	& ADD the	OPPOSITE
<b>5</b>	+	<b>(-9)</b>

**KEEP** the first number the same and  
**ADD** (Change the operation to addition.)  
the  
**OPPOSITE** (Change the last number to its **OPPOSITE**.)

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Oct 16-3:32 PM

<b>K</b>	+	<b>O</b>
<b>-9</b>	-	<b>(-2)</b>
↓	↓	↓
KEEP	& ADD the	OPPOSITE
_____		_____

<b>K</b>	+	<b>O</b>
<b>-1</b>	-	<b>4</b>
↓	↓	↓
KEEP	& ADD the	OPPOSITE
_____		_____

<b>K</b>	+	<b>O</b>
<b>-4</b>	-	<b>3</b>
↓	↓	↓
KEEP	& ADD the	OPPOSITE
_____		_____

<b>K</b>	+	<b>O</b>
<b>4</b>	-	<b>-2</b>
↓	↓	↓
KEEP	& ADD the	OPPOSITE
_____		_____

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Oct 16-3:35 PM

Try these. Remember... KEEP and ADD the OPPOSITE!

1. -3 - 1 =	2. -2 - (-4) =
3. 5 - (-2) =	4. -3 - 7 =
5. -1 - (-8) =	

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Oct 16-3:39 PM



Evaluate  $a - b$  for each set of values.

$$a = 11 \text{ and } b = -16$$

$$a = -7 \text{ and } b = -15$$

$$a = 12 \text{ and } b = 20$$

Oct 16-3:52 PM

**Practice**

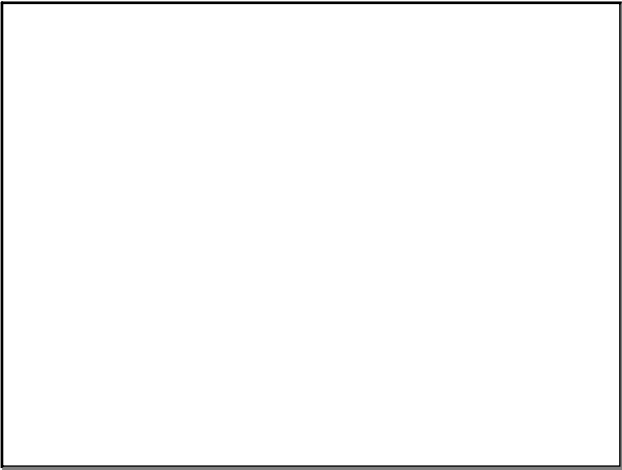
- 1.  $-8 - (-11)$                     **1. 3**
- 2.  $-14 - 8$                             **2. -22**
- 3.  $-5 - (-9)$                         **3. 4**
- 4.  $30 - (-12)$                       **4. 42**
- 5.  $-12 - 9 + (-4)$                 **5. -25**

Aug 31-7:31 PM

- 1. Find the **difference** between 3,000 degrees and -250 degrees, the temperatures the space shuttle must endure.
- 2. Find the **difference** between 32 degrees and -10 degrees.
- 3. The temperature of Mercury, the planet closest to the Sun, can be as hot as 873 degrees. The temperature of Pluto, the planet farthest from the Sun, is -393 degrees. What is the **difference** between these two temperatures?
- 4. The highest recorded temperature is 136 degrees. The lowest is -129 degrees. What is the **difference** between these temperatures?



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Sep 4-9:13 PM

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