

# Negative Numbers

Rules Rule!

By: Brett Taylor- Pinellas County Schools

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# Learning Style

- We are going to go rules that, if you learn them, will let you solve problems involving negative numbers.



# Learning Style

- We are going to go over some rules that, if you learn them, will let you solve problems involving negative numbers.
- Learning and remembering these rules may take a great deal of practice.

# A Little Bit of Knowledge?

- Two negatives make a positive.

# A Little Bit of Knowledge?

- Two negatives make a positive.??????????????

# A Little Bit of Knowledge?

- $-2 \times -3 =$

# A Little Bit of Knowledge?

- $-2 \times -3 = 6$  YES

# A Little Bit of Knowledge?

- $-2 \times -3 = 6$  YES
- BUT-----  $-2 + -3 =$



# A Little Bit of Knowledge?

- $-2 \times -3 = 6$  YES
- BUT-----  $-2 + -3 = -5$
- **Two negatives do make a positive BUT ONLY when multiplying or dividing!!!!**

# Pretest

- 1)  $-3 + -2 =$
- 2)  $-3 \times -2 =$
- 3)  $-3 - -2 =$
- 4)  $5 \times -2 =$
- 5)  $-2 + 7 =$
- All answers are on the next slide

# Pretest Answers

- 1)  $-3 + -2 = -6$
- 2)  $-3 \times -2 = 6$
- 3)  $-3 - -2 = -1$
- 4)  $5 \times -2 = -10$
- 5)  $-2 + 7 = 5$
- If you got all these right, you do not need this lesson.

# Adding Negative Numbers

## “+” Sign Rules

- If there is a “+” sign, follow one of these rules-

1st ASK

Are BOTH numbers negative?

OR

Is one number negative and one positive?



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Is one number negative and one positive?

ADD the numbers

The answer will be negative

Example:  $-3 + -2 = -5$



# “+” Sign Rules

- If there is a “+” sign, follow one of these rules-

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Are BOTH numbers negative?

OR

Is one number negative and one positive?

SUBTRACT the numbers

Give the answer the sign of the larger number

Example:  $-7 + 3 = -4$

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- If there is a “+” sign, follow one of these rules-

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Are BOTH numbers negative?

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Is one number negative and one positive?

ADD the numbers

The answer will be negative

Example:  $-3 + -2 = -5$

SUBTRACT the numbers

Give the answer the sign of the larger number

Example:  $-7 + 3 = -4$

**Let's Practice!**

“+” Sign, Rule 1- Are Both Negative?  
ADD, Stays Neg.

$$-2 + -1 = \square$$





“+” Sign, Rule 1- Are Both Negative?  
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$$-2 + -1 = -3$$



“+” Sign, Rule 1- Are Both Negative?  
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“+” Sign, Rule 1- Are Both Negative?  
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$$-2 + -1 = -3$$

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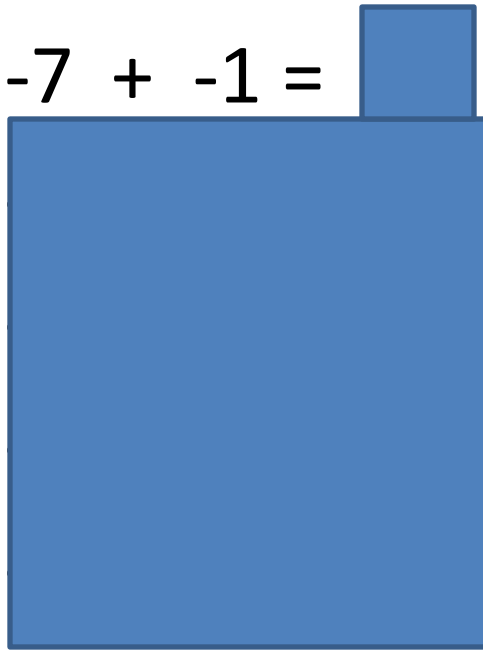


“+” Sign, Rule 1- Are Both Negative?  
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“+” Sign, Rule 1- Are Both Negative?  
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$$-2 + -1 = -3$$

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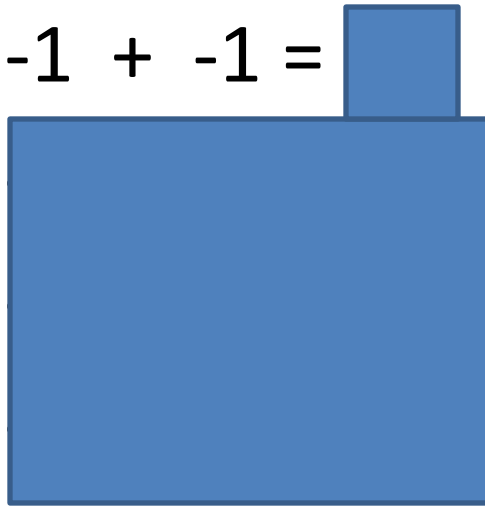
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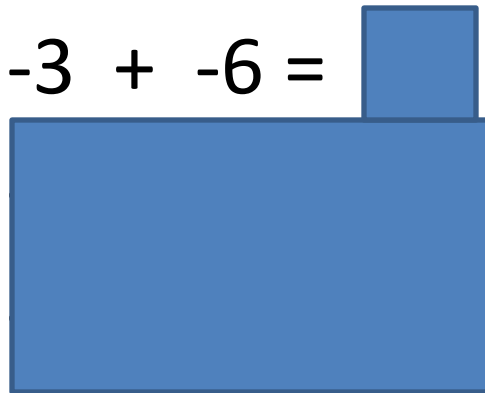
$$-2 + -1 = -3$$

$$-5 + -4 = -9$$

$$-7 + -1 = -8$$

$$-1 + -1 = -2$$

$$-3 + -6 =$$





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$$-1 + -1 = -2$$

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“+” Sign, Rule 2- Is One Negative, & One Positive?

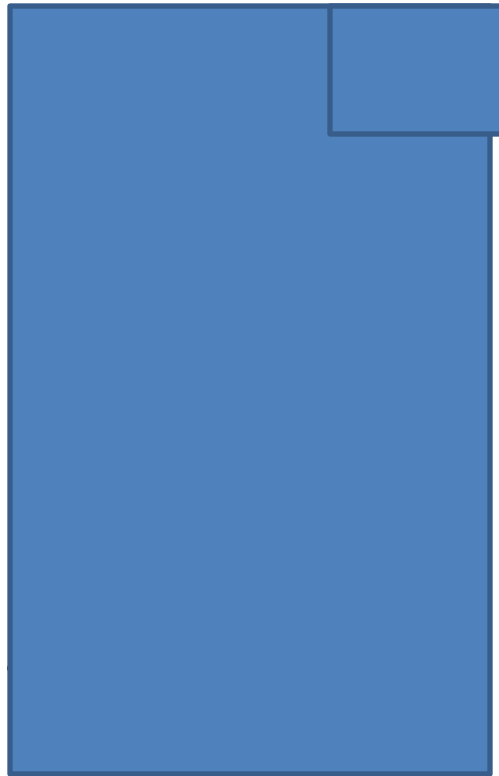
**SUBTRACT, Give sign of larger number to the answer.**

$$-2 + 1 =$$



“+” Sign, Rule 2- Is One Negative, & One Positive?  
**SUBTRACT, Give sign of larger number.**

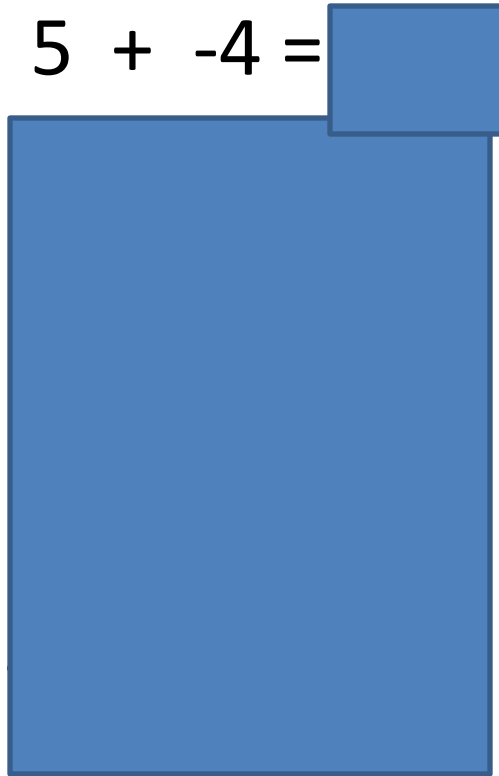
$$-2 + 1 = -1$$



“+” Sign, Rule 2- Is One Negative, & One Positive?  
**SUBTRACT, Give sign of larger number.**

$$-2 + 1 = -1$$

$$5 + -4 =$$



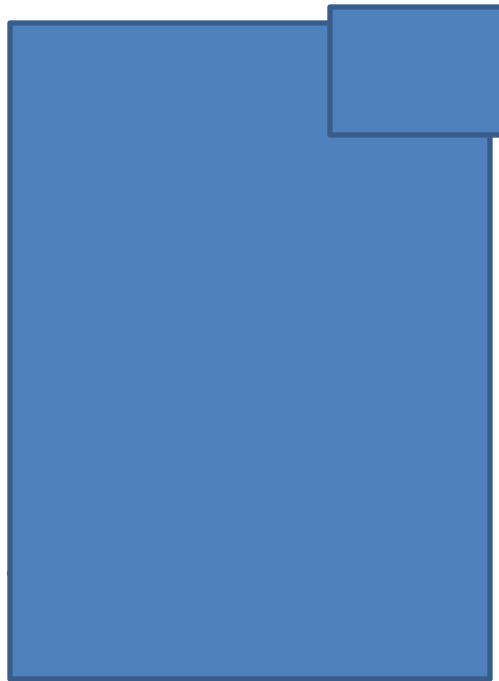


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$$-2 + 1 = -1$$

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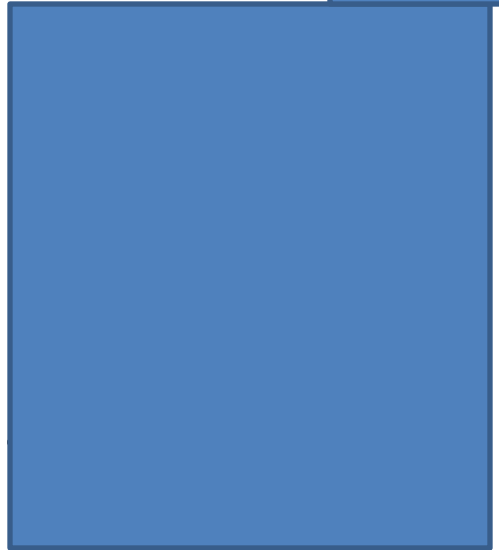


“+” Sign, Rule 2- Is One Negative, & One Positive?  
**SUBTRACT, Give sign of larger number.**

$$-2 + 1 = -1$$

$$5 + -4 = 1$$

$$7 + -1 =$$

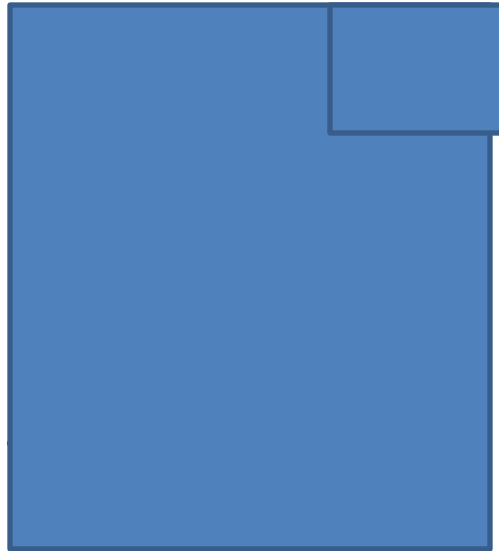


“+” Sign, Rule 2- Is One Negative, & One Positive?  
**SUBTRACT, Give sign of larger number.**

$$-2 + 1 = -1$$

$$5 + -4 = 1$$

$$7 + -1 = 6$$



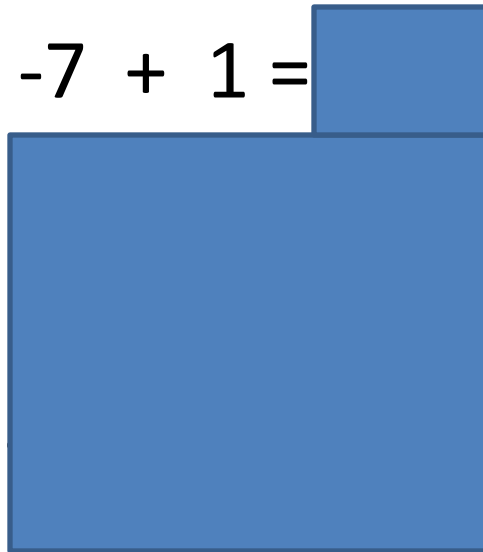
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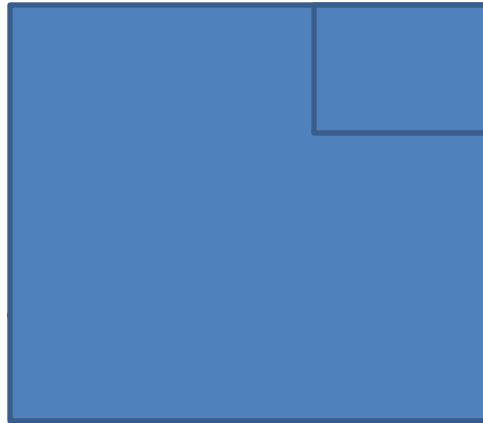
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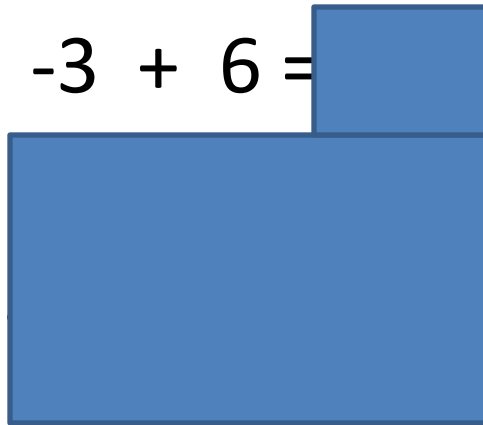
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$$-3 + 6 =$$



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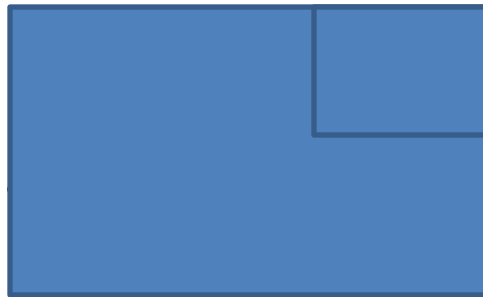
$$-2 + 1 = -1$$

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$$-4 + -5 = -9$$

## “+” sign rules

Both Neg? ADD, Stays Neg.

One neg/One Pos? SUBTRACT, Give sign of Larger

Let's mix it up.

$$2 + -1 =$$


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$$-4 + -5 = -9$$

$$-2 + 1 = -1$$

$$5 + -4 =$$



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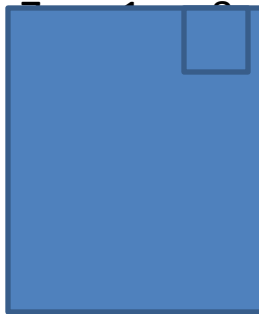
$$3 + -6 = -3$$

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$$-4 + -5 = -9$$

$$-2 + 1 = -1$$

$$5 + -4 = 1$$



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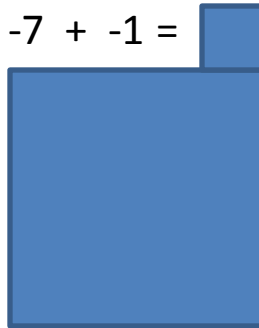
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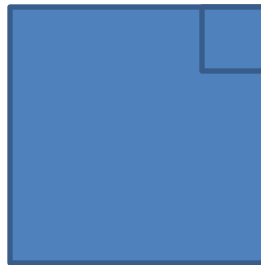
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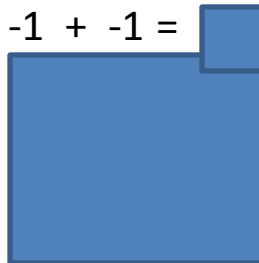
$$-4 + -5 = -9$$

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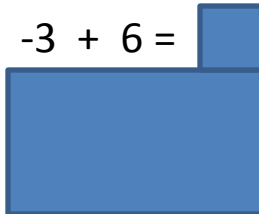
$$-2 + 1 = -1$$

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$$-3 + 6 =$$



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$$5 + -4 = 1$$

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$$-4 + -5 = -9$$

$$-2 + 1 = -1$$

$$5 + -4 = 1$$

$$-7 + -1 = -8$$

$$-1 + -1 = -2$$

$$-3 + 6 = 3$$

$$-3 + 2 = -1$$

$$-4 + -5 = -9$$

# Any Questions?





# ANOTHER TYPE OF PROBLEM

- We've been doing problems like:

$$-2 + -3 \quad \text{and} \quad -6 + 2$$

Notice there has been a + sign between the numbers.

# ANOTHER TYPE OF PROBLEM

- We've been doing problems like:

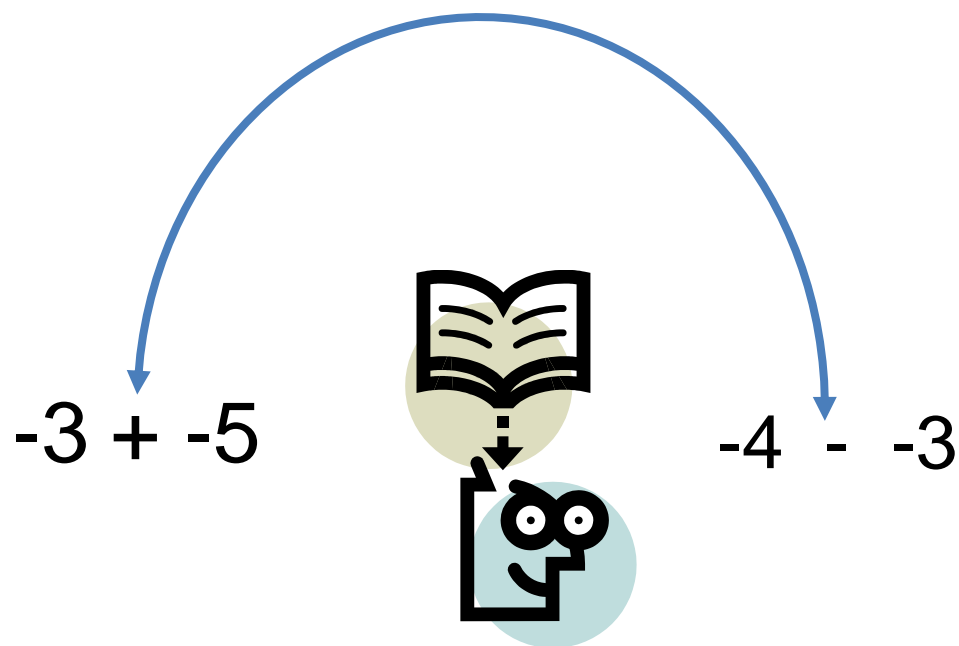
$$-2 + -3 \text{ and } -6 + 2$$

Notice there has been a + sign between the numbers.

Now we are going to do problems with a – sign between the numbers instead of the + sign.

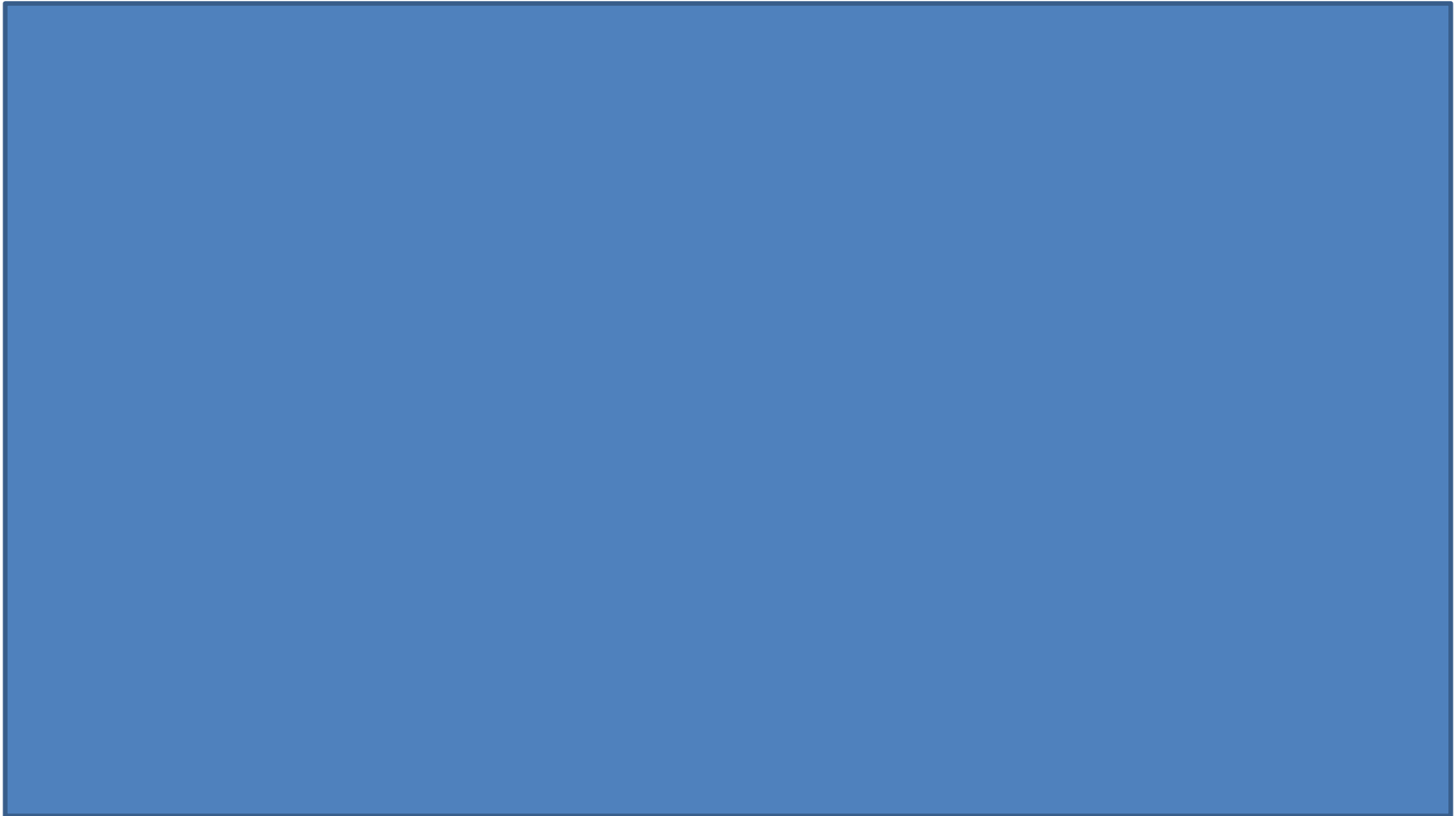
Problems like this:  $-2 - -3$  and  $-5 - 4$

# Do you see the difference?



# “—” sign Rules

For problems like this:  $-3 - -4 =$



# Subtracting Negative Numbers

## “—” sign Rules

For problems like this:  $-3 - -4 =$

If there is a minus sign ( - ) between two numbers, the first rule is:

**STOP!** Do not do that problem.



# “—” sign Rules

For problems like this:  $-3 = -4 =$

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You will need to **rewrite** this type of problem.



# “—” sign Rules

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$$-3 - -4 =$$

The first number stays the same.

$$-3$$

# “—” sign Rules

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If there is a minus sign ( - ) between two numbers, the first rule is:

**STOP!** Do not do that problem.

You will need to **rewrite** this type of problem.

The first number stays the same.

Change the “-” sign to a “+” sign.

$$-3 - -4 =$$

$$-3$$

$$-3 +$$



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If there is a minus sign ( - ) between two numbers, the first rule is:

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The first number stays the same.

Change the “-” sign to a “+” sign.

Change the 2<sup>nd</sup> number to the opposite sign.

$$-3 - -4 =$$

$$\begin{array}{c} -3 \\ \downarrow \end{array}$$

$$-3 +$$

$$-3 + 4 \text{ (no sign means positive)}$$

# “—” sign Rules

For problems like this:  $-3 - -4 =$

If there is a minus sign ( - ) between two numbers, the first rule is:

**STOP!** Do not do that problem.

You will need to **rewrite** this type of problem.

$$-3 - -4 =$$

The first number stays the same.

$$-3$$

Change the “-” sign to a “+” sign.

$$-3 +$$

Change the 2<sup>nd</sup> number to the opposite sign.

$$-3 + 4$$

Now this is a “+” sign type problem.

Follow the + sign rules

$$-3 + 4 = 1, \text{ so } -3 - -4 = 1$$

# Stop, Change, Change

$$-2 - -7 =$$

Changes to


# Stop, Change, Change

$$-2 - -7 =$$

Changes to  $-2 + 7 =$

--	--

--

# Stop, Change, Change

$$-2 - -7 =$$

Changes to  $-2 + 7 =$  and the answer is:

A large blue rectangular box with a thin black border, intended for the user to write the final answer to the math problem.

# Stop, Change, Change

$$-2 - -7 =$$

Changes to  $-2 + 7 =$  and the answer is: 5



# Stop, Change, Change

$$-2 - -7 =$$

Changes to  $-2 + 7 =$  and the answer is: 5

$$-5 - 8 =$$

Changes to


# Stop, Change, Change

$$-2 - -7 =$$

Changes to  $-2 + 7 =$  and the answer is: 5

$$-5 - 8 =$$

Changes to  $-5 + -8 =$



# Stop, Change, Change

$$-2 - -7 =$$

Changes to  $-2 + 7 =$  and the answer is: 5

$$-5 - 8 =$$

Changes to  $-5 + -8 =$  and the answer is:



# Stop, Change, Change

$$-2 - -7 =$$

Changes to  $-2 + 7 =$  and the answer is: 5

$$-5 - 8 =$$

Changes to  $-5 + -8 =$  and the answer is: -13



# Stop, Change, Change

$$-2 - -7 =$$

Changes to  $-2 + 7 =$  and the answer is: 5

$$-5 - 8 =$$

Changes to  $-5 + -8 =$  and the answer is: -13

$$3 - 8 =$$

Changes to

--	--	--

--

# Stop, Change, Change

$$-2 - -7 =$$

Changes to  $-2 + 7 =$  and the answer is: 5

$$-5 - 8 =$$

Changes to  $-5 + -8 =$  and the answer is: -13

$$3 - 8 =$$

Changes to  $3 + -8 =$

--	--

--

# Stop, Change, Change

$$-2 - -7 =$$

Changes to  $-2 + 7 =$  and the answer is: 5

$$-5 - 8 =$$

Changes to  $-5 + -8 =$  and the answer is: -13

$$3 - 8 =$$

Changes to  $3 + -8 =$  and the answer is:

# Stop, Change, Change

$$-2 - -7 =$$

Changes to  $-2 + 7 =$  and the answer is: 5

$$-5 - 8 =$$

Changes to  $-5 + -8 =$  and the answer is: -13

$$3 - 8 =$$

Changes to  $3 + -8 =$  and the answer is: -5



# Stop, Change, Change

$$-2 - -7 =$$

Changes to  $-2 + 7 =$  and the answer is: 5

$$-5 - 8 =$$

Changes to  $-5 + -8 =$  and the answer is: -13

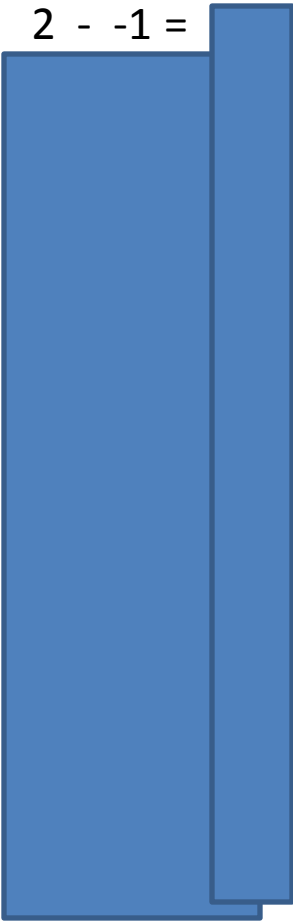
$$3 - 8 =$$

Changes to  $3 + -8 =$  and the answer is: -5

1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 =$$
Two overlapping blue rectangles are positioned below the equation. The first rectangle is on the left, and the second rectangle is on the right, partially overlapping the first one.



## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

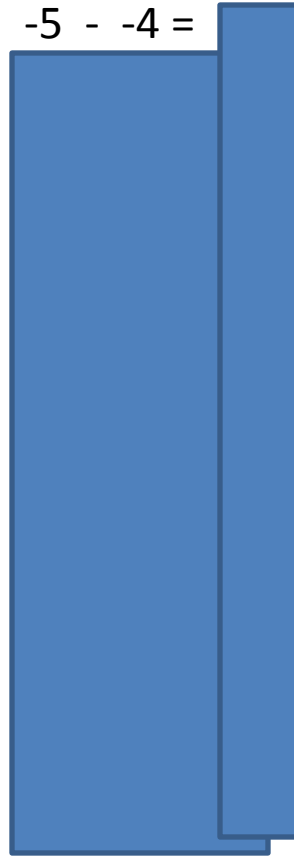


## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 =$$

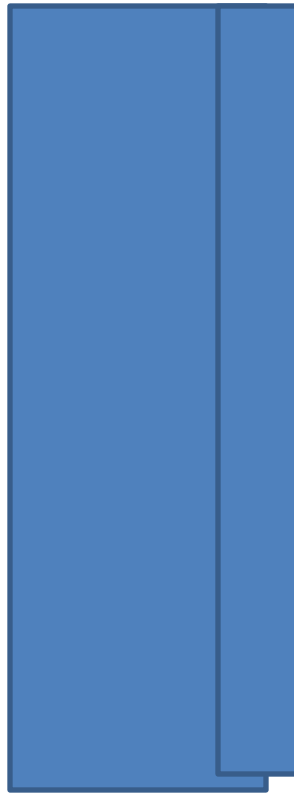


## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$



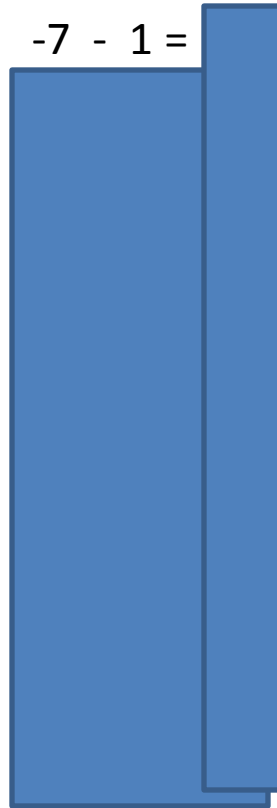
## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

$$-7 - 1 =$$



## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

$$-7 - 1 = -8$$



## “-” sign rules

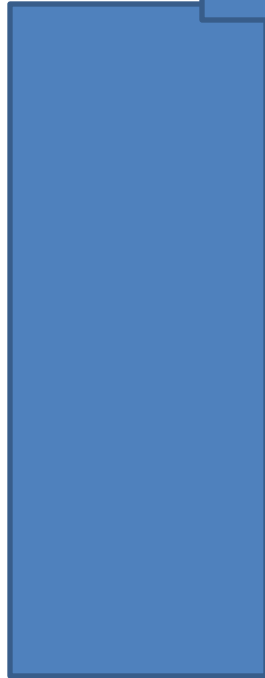
STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

$$-7 - 1 = -8$$

$$-2 - -1 =$$



## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

$$-7 - 1 = -8$$

$$-2 - -1 = -1$$



## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

$$-7 - 1 = -8$$

$$-2 - -1 = -1$$

$$3 - -6 =$$





## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

$$-7 - 1 = -8$$

$$-2 - -1 = -1$$

$$3 - -6 = 9$$



## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

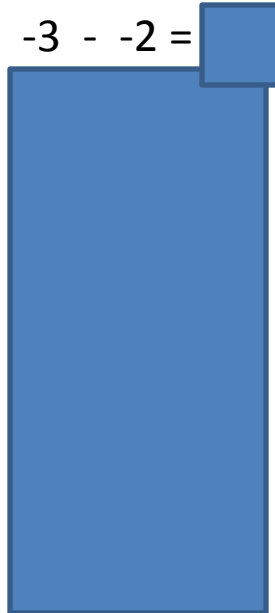
$$-5 - -4 = -1$$

$$-7 - 1 = -8$$

$$-2 - -1 = -1$$

$$3 - -6 = 9$$

$$-3 - -2 =$$



## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

$$-7 - 1 = -8$$

$$-2 - -1 = -1$$

$$3 - -6 = 9$$

$$-3 - -2 = -1$$



## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

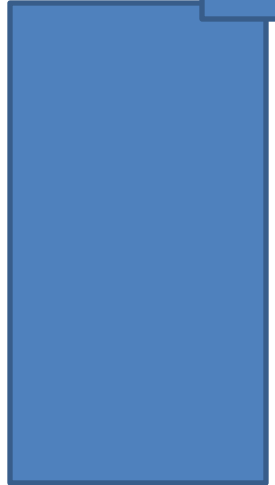
$$-7 - 1 = -8$$

$$-2 - -1 = -1$$

$$3 - -6 = 9$$

$$-3 - -2 = -1$$

$$-4 - -5 =$$



## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

$$-7 - 1 = -8$$

$$-2 - -1 = -1$$

$$3 - -6 = 9$$

$$-3 - -2 = -1$$

$$-4 - -5 = 1$$



## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

$$-7 - 1 = -8$$

$$-2 - -1 = -1$$

$$3 - -6 = 9$$

$$-3 - -2 = -1$$

$$-4 - -5 = 1$$

$$-2 - 1 =$$



## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

$$-7 - 1 = -8$$

$$-2 - -1 = -1$$

$$3 - -6 = 9$$

$$-3 - -2 = -1$$

$$-4 - -5 = 1$$

$$-2 - 1 = -3$$



## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

$$-7 - 1 = -8$$

$$-2 - -1 = -1$$

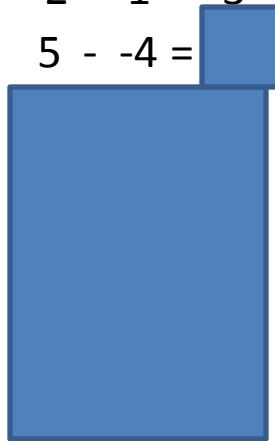
$$3 - -6 = 9$$

$$-3 - -2 = -1$$

$$-4 - -5 = 1$$

$$-2 - 1 = -3$$

$$5 - -4 =$$





## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

$$-7 - 1 = -8$$

$$-2 - -1 = -1$$

$$3 - -6 = 9$$

$$-3 - -2 = -1$$

$$-4 - -5 = 1$$

$$-2 - 1 = -3$$

$$5 - -4 = 9$$



## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

$$-7 - 1 = -8$$

$$-2 - -1 = -1$$

$$3 - -6 = 9$$

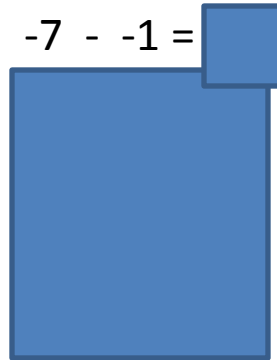
$$-3 - -2 = -1$$

$$-4 - -5 = 1$$

$$-2 - 1 = -3$$

$$5 - -4 = 9$$

$$-7 - -1 =$$



## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

$$-7 - 1 = -8$$

$$-2 - -1 = -1$$

$$3 - -6 = 9$$

$$-3 - -2 = -1$$

$$-4 - -5 = 1$$

$$-2 - 1 = -3$$

$$5 - -4 = 9$$

$$-7 - -1 = -6$$



## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

$$-7 - 1 = -8$$

$$-2 - -1 = -1$$

$$3 - -6 = 9$$

$$-3 - -2 = -1$$

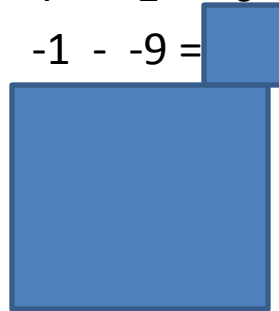
$$-4 - -5 = 1$$

$$-2 - 1 = -3$$

$$5 - -4 = 9$$

$$-7 - -1 = -6$$

$$-1 - -9 =$$



## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

$$-7 - 1 = -8$$

$$-2 - -1 = -1$$

$$3 - -6 = 9$$

$$-3 - -2 = -1$$

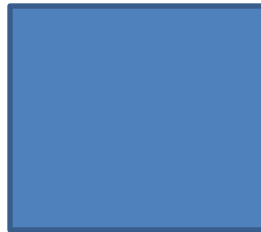
$$-4 - -5 = 1$$

$$-2 - 1 = -3$$

$$5 - -4 = 9$$

$$-7 - -1 = -6$$

$$-1 - -9 = 8$$



## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

$$-7 - 1 = -8$$

$$-2 - -1 = -1$$

$$3 - -6 = 9$$

$$-3 - -2 = -1$$

$$-4 - -5 = 1$$

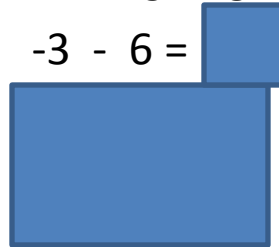
$$-2 - 1 = -3$$

$$5 - -4 = 9$$

$$-7 - -1 = -6$$

$$-1 - -9 = 8$$

$$-3 - 6 =$$



## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

$$-7 - 1 = -8$$

$$-2 - -1 = -1$$

$$3 - -6 = 9$$

$$-3 - -2 = -1$$

$$-4 - -5 = 1$$

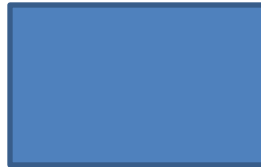
$$-2 - 1 = -3$$

$$5 - -4 = 9$$

$$-7 - -1 = -6$$

$$-1 - -9 = 8$$

$$-3 - 6 = -9$$



## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

$$-7 - 1 = -8$$

$$-2 - -1 = -1$$

$$3 - -6 = 9$$

$$-3 - -2 = -1$$

$$-4 - -5 = 1$$

$$-2 - 1 = -3$$

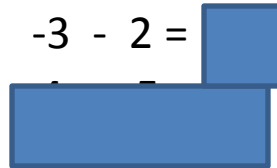
$$5 - -4 = 9$$

$$-7 - -1 = -6$$

$$-1 - -9 = 8$$

$$-3 - 6 = -9$$

$$-3 - 2 =$$





## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

$$-7 - 1 = -8$$

$$-2 - -1 = -1$$

$$3 - -6 = 9$$

$$-3 - -2 = -1$$

$$-4 - -5 = 1$$

$$-2 - 1 = -3$$

$$5 - -4 = 9$$

$$-7 - -1 = -6$$

$$-1 - -9 = 8$$

$$-3 - 6 = -9$$

$$-3 - 2 = -5$$



## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

$$-7 - 1 = -8$$

$$-2 - -1 = -1$$

$$3 - -6 = 9$$

$$-3 - -2 = -1$$

$$-4 - -5 = 1$$

$$-2 - 1 = -3$$

$$5 - -4 = 9$$

$$-7 - -1 = -6$$

$$-1 - -9 = 8$$

$$-3 - 6 = -9$$

$$-3 - 2 = -5$$

$$4 - -5 = \boxed{\phantom{00}}$$

## “-” sign rules

STOP then--1<sup>st</sup> number stays, change to + sign, change 2<sup>nd</sup> number's sign.

$$2 - -1 = 3$$

$$-5 - -4 = -1$$

$$-7 - 1 = -8$$

$$-2 - -1 = -1$$

$$3 - -6 = 9$$

$$-3 - -2 = -1$$

$$-4 - -5 = 1$$

$$-2 - 1 = -3$$

$$5 - -4 = 9$$

$$-7 - -1 = -6$$

$$-1 - -9 = 8$$

$$-3 - 6 = -9$$

$$-3 - 2 = -5$$

$$4 - -5 = 9$$

# Now another rule.

- We will focus now on multiplying and dividing signed numbers.
- The rules for multiplying and dividing are simple, but more new rules along with the ones we just learned can be confusing.



# Multiplying and Dividing Rules

- When multiplying or dividing if both numbers are negative then the answer will be positive.
- If one number is positive and one number is negative, the answer will be negative.
- $-2 \times -3 = 6$  and  $-4 \times 2 = -8$

# Multiplying and Dividing Rules

Two negatives make a positive. A negative times a positive is a negative.

$$2 \times -1 =$$

# Multiplying and Dividing Rules

Two negatives make a positive. A negative times a positive is a negative.

$$2 \times -1 = -2$$

# Multiplying and Dividing Rules

Two negatives make a positive. A negative times a positive is a negative.

$$-5 \times -4 =$$



# Multiplying and Dividing Rules

Two negatives make a positive. A negative times a positive is a negative.

$$-5 \times -4 = 20$$

# Multiplying and Dividing Rules

Two negatives make a positive. A negative times a positive is a negative.

$$-7 \times 1 =$$

# Multiplying and Dividing Rules

Two negatives make a positive. A negative times a positive is a negative.

$$-7 \times 1 = -7$$

# Multiplying and Dividing Rules

Two negatives make a positive. A negative times a positive is a negative.

$$3 \times -6 =$$

# Multiplying and Dividing Rules

Two negatives make a positive. A negative times a positive is a negative.

$$3 \times -6 = -18$$

# Multiplying and Dividing Rules

Two negatives make a positive. A negative times a positive is a negative.

$$-4 \times -5 =$$

# Multiplying and Dividing Rules

Two negatives make a positive. A negative times a positive is a negative.

$$-4 \times -5 = 20$$

# Multiplying and Dividing Rules

Two negatives make a positive. A negative times a positive is a negative.

$$-2 \times 1 =$$



# Multiplying and Dividing Rules

Two negatives make a positive. A negative times a positive is a negative.

$$-2 \times 1 = -2$$

# Multiplying and Dividing Rules

Two negatives make a positive. A negative times a positive is a negative.

$$5 \times -4 =$$

# Multiplying and Dividing Rules

Two negatives make a positive. A negative times a positive is a negative.

$$5 \times -4 = -20$$

# Multiplying and Dividing Rules

Two negatives make a positive. A negative times a positive is a negative.

$$-7 \times -1 =$$

# Multiplying and Dividing Rules

Two negatives make a positive. A negative times a positive is a negative.

$$-7 \times -1 = 7$$

# Multiplying and Dividing Rules

Two negatives make a positive. A negative times a positive is a negative.

Try these four now-

$$-1 \times -9 =$$

$$-3 \times 6 =$$

$$-3 \times 2 =$$

$$4 \times -5 =$$



# Multiplying and Dividing Rules

Two negatives make a positive. A negative times a positive is a negative.

$$-1 \times -9 = 9$$

$$-3 \times 6 = -18$$

$$-3 \times 2 = -6$$

$$4 \times -5 = -20$$

# Review

## “+” sign rules

- If both are negative add, the answer will be negative.  $-2 + -3 = -5$
- If one is negative and one positive, subtract, the answer will have the sign of the larger number,  
 $-2 + 7 = 5$  and  $3 + -9 = -6$

## “-” Sign rules

Stop, Change the – sign to a + sign, change the second number to opposite sign, do it as a + sign problem.  $-2 - -3$  becomes  $-2 + 3$

## Multiplying and Dividing Rules

If both are negative, the answer will be positive.  $-2 \times -3 = 6$

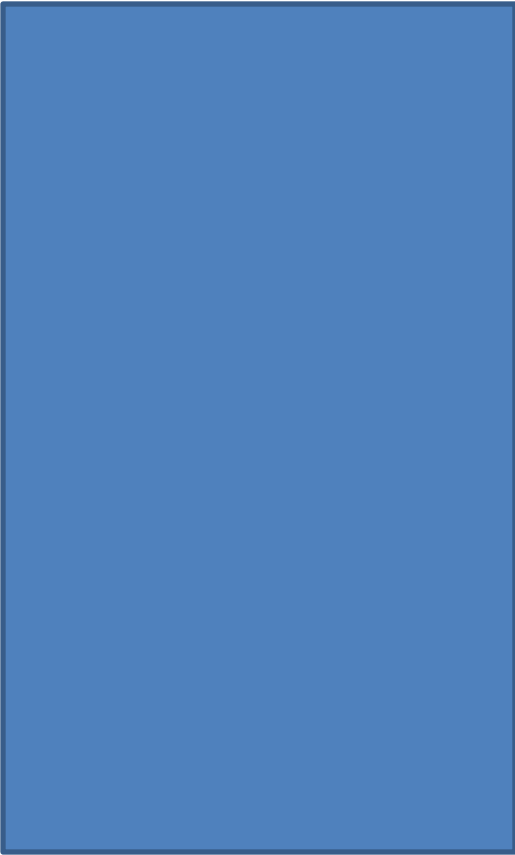
If one is negative and the other positive, the answer will be negative.

$$2 \times -3 = -6$$



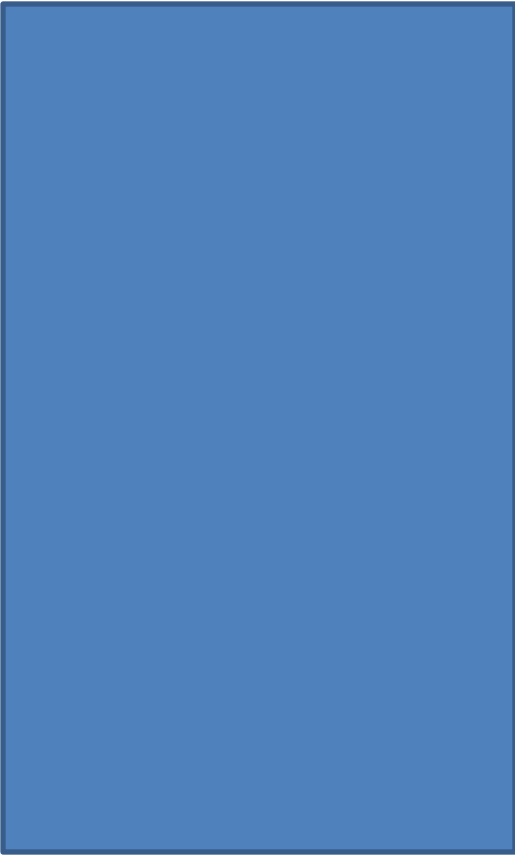
# Mix It UP!

- 1)  $-3 + -2 =$



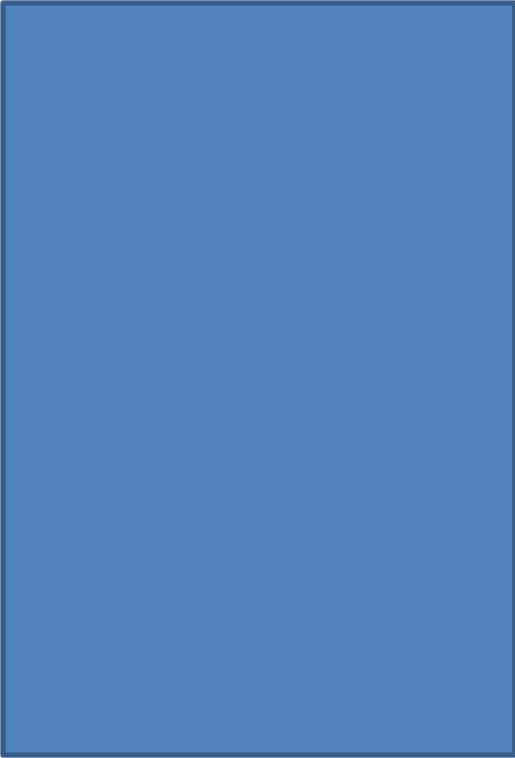
# Mix It UP!

- 1)  $-3 + -2 = -5$



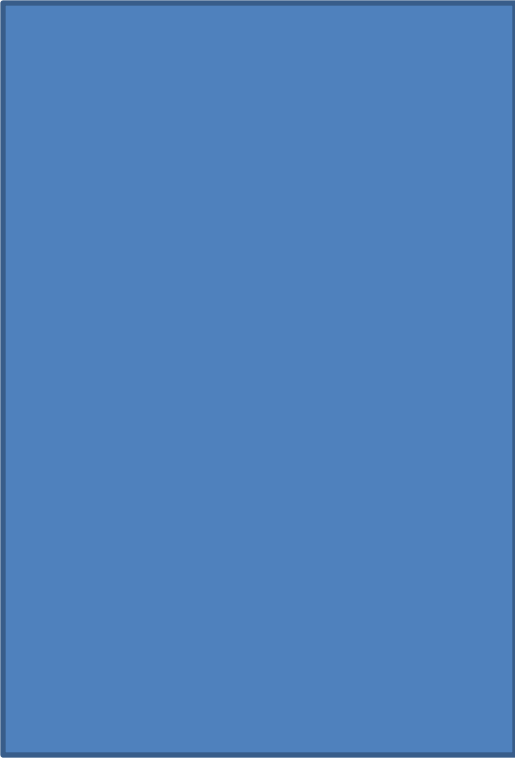
# Mix It UP!

- 1)  $-3 + -2 = -5$
- 2)  $-3 \times -2 =$



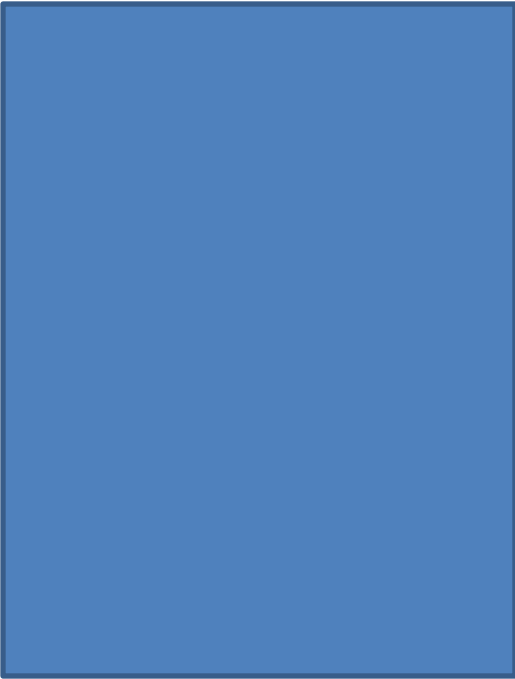
# Mix It UP!

- 1)  $-3 + -2 = -5$
- 2)  $-3 \times -2 = 6$



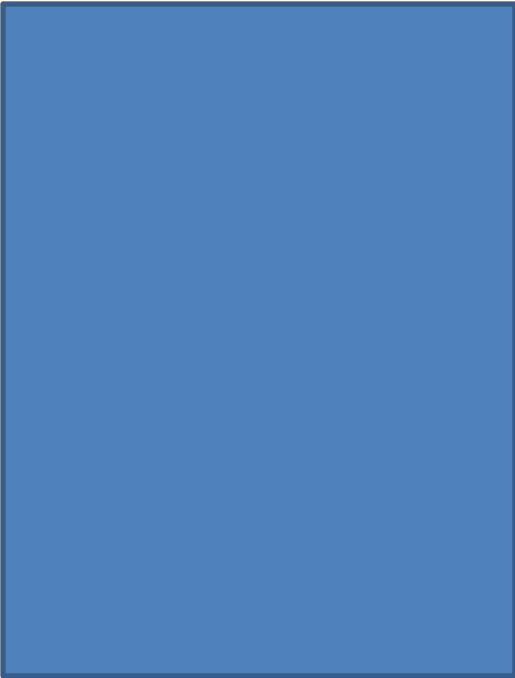
# Mix It UP!

- 1)  $-3 + -2 = -5$
- 2)  $-3 \times -2 = 6$
- 3)  $-3 - -2 =$



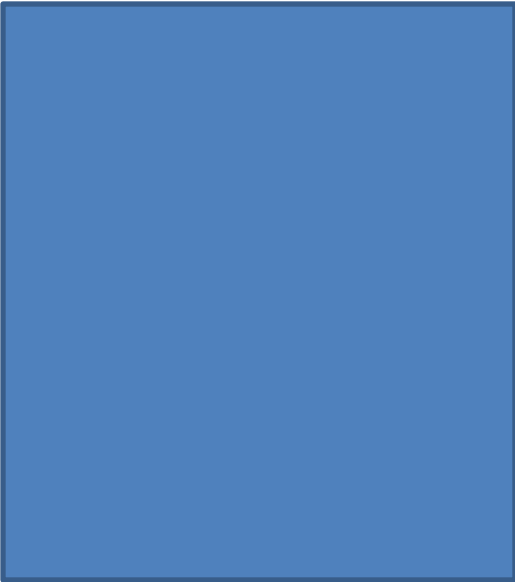
# Mix It UP!

- 1)  $-3 + -2 = -5$
- 2)  $-3 \times -2 = 6$
- 3)  $-3 - -2 = -1$  ( change to  $-3 + 2$ )



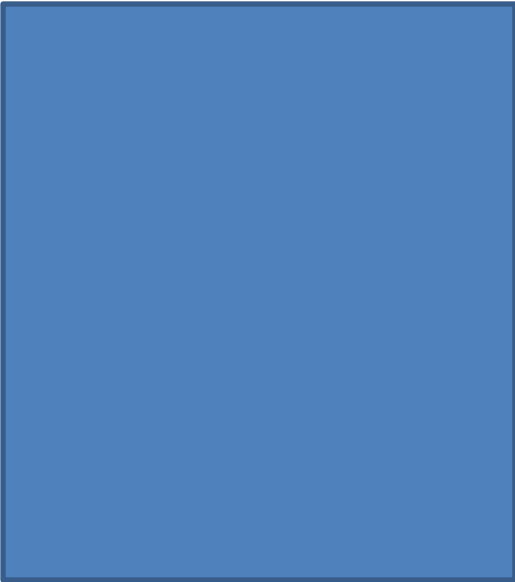
# Mix It UP!

- 1)  $-3 + -2 = -5$
- 2)  $-3 \times -2 = 6$
- 3)  $-3 - -2 = -1$  ( change to  $-3 + 2$ )
- 4)  $5 \times -2 =$



# Mix It UP!

- 1)  $-3 + -2 = -6$
- 2)  $-3 \times -2 = 6$
- 3)  $-3 - -2 = -1$  ( change to  $-3 + 2$ )
- 4)  $5 \times -2 = -10$





# Mix It UP!

- 1)  $-3 + -2 = -6$
- 2)  $-3 \times -2 = 6$
- 3)  $-3 - -2 = -1$  ( change to  $-3 + 2$ )
- 4)  $5 \times -2 = -10$
- 5)  $-2 + 7 =$



# Mix It UP!

- 1)  $-3 + -2 = -6$
- 2)  $-3 \times -2 = 6$
- 3)  $-3 - -2 = -1$  ( change to  $-3 + 2$ )
- 4)  $5 \times -2 = -10$
- 5)  $-2 + 7 = 5$



# Mix It UP!

- 1)  $-3 + -2 = -6$
- 2)  $-3 \times -2 = 6$
- 3)  $-3 - -2 = -1$  ( change to  $-3 + 2$ )
- 4)  $5 \times -2 = -10$
- 5)  $-2 + 7 = 5$
- 6)  $6 \times -2 =$



# Mix It UP!

- 1)  $-3 + -2 = -6$
- 2)  $-3 \times -2 = 6$
- 3)  $-3 - -2 = -1$  ( change to  $-3 + 2$ )
- 4)  $5 \times -2 = -10$
- 5)  $-2 + 7 = 5$
- 6)  $6 \times -2 = -12$



# Mix It UP!

- 1)  $-3 + -2 = -6$
- 2)  $-3 \times -2 = 6$
- 3)  $-3 - -2 = -1$  ( change to  $-3 + 2$ )
- 4)  $5 \times -2 = -10$
- 5)  $-2 + 7 = 5$
- 6)  $6 \times -2 = -12$
- 7)  $8 + -3 =$



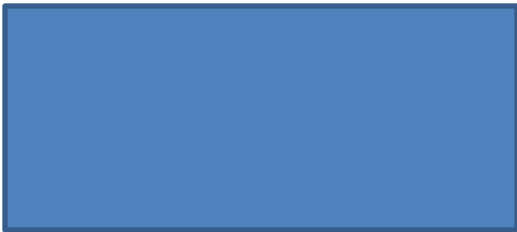
# Mix It UP!

- 1)  $-3 + -2 = -6$
- 2)  $-3 \times -2 = 6$
- 3)  $-3 - -2 = -1$  ( change to  $-3 + 2$ )
- 4)  $5 \times -2 = -10$
- 5)  $-2 + 7 = 5$
- 6)  $6 \times -2 = -12$
- 7)  $8 + -3 = 5$



# Mix It UP!

- 1)  $-3 + -2 = -6$
- 2)  $-3 \times -2 = 6$
- 3)  $-3 - -2 = -1$  ( change to  $-3 + 2$ )
- 4)  $5 \times -2 = -10$
- 5)  $-2 + 7 = 5$
- 6)  $6 \times -2 = -12$
- 7)  $8 + -3 = 5$
- 8)  $-2 \times -5 =$



# Mix It UP!

- 1)  $-3 + -2 = -6$
- 2)  $-3 \times -2 = 6$
- 3)  $-3 - -2 = -1$  ( change to  $-3 + 2$ )
- 4)  $5 \times -2 = -10$
- 5)  $-2 + 7 = 5$
- 6)  $6 \times -2 = -12$
- 7)  $8 + -3 = 5$
- 8)  $-2 \times -5 = 10$





# Mix It UP!

- 1)  $-3 + -2 = -6$
- 2)  $-3 \times -2 = 6$
- 3)  $-3 - -2 = -1$  ( change to  $-3 + 2$ )
- 4)  $5 \times -2 = -10$
- 5)  $-2 + 7 = 5$
- 6)  $6 \times -2 = -12$
- 7)  $8 + -3 = 5$
- 8)  $-2 \times -5 = 10$
- 9)  $-1 - 4 =$



# Mix It UP!

- 1)  $-3 + -2 = -6$
- 2)  $-3 \times -2 = 6$
- 3)  $-3 - -2 = -1$  ( change to  $-3 + 2$ )
- 4)  $5 \times -2 = -10$
- 5)  $-2 + 7 = 5$
- 6)  $6 \times -2 = -12$
- 7)  $8 + -3 = 5$
- 8)  $-2 \times -5 = 10$
- 9)  $-1 - 4 = -5$  (CHANGE TO  $-1 + -4$ )



# Mix It UP!

- 1)  $-3 + -2 = -6$
  - 2)  $-3 \times -2 = 6$
  - 3)  $-3 - -2 = -1$  ( change to  $-3 + 2$ )
  - 4)  $5 \times -2 = -10$
  - 5)  $-2 + 7 = 5$
  - 6)  $6 \times -2 = -12$
  - 7)  $8 + -3 = 5$
  - 8)  $-2 \times -5 = 10$
  - 9)  $-1 - 4 = -5$
  - 10)  $-3 \times -2 =$
-

# Mix It UP!

- 1)  $-3 + -2 = -6$
  - 2)  $-3 \times -2 = 6$
  - 3)  $-3 - -2 = -1$  ( change to  $-3 + 2$ )
  - 4)  $5 \times -2 = -10$
  - 5)  $-2 + 7 = 5$
  - 6)  $6 \times -2 = -12$
  - 7)  $8 + -3 = 5$
  - 8)  $-2 \times -5 = 10$
  - 9)  $-1 - 4 = -5$
  - 10)  $-3 \times -2 = 6$
-

# Practice.

- I will now send you some files-
- 1<sup>st</sup>- This presentation as a pdf.
- 2<sup>nd</sup>- Four Practice Worksheets (pdf)
- 3<sup>rd</sup>- Link to short instructional videos on this topic and a link to APlusMath.com's practice site.

# More Practice- AplusMath.com

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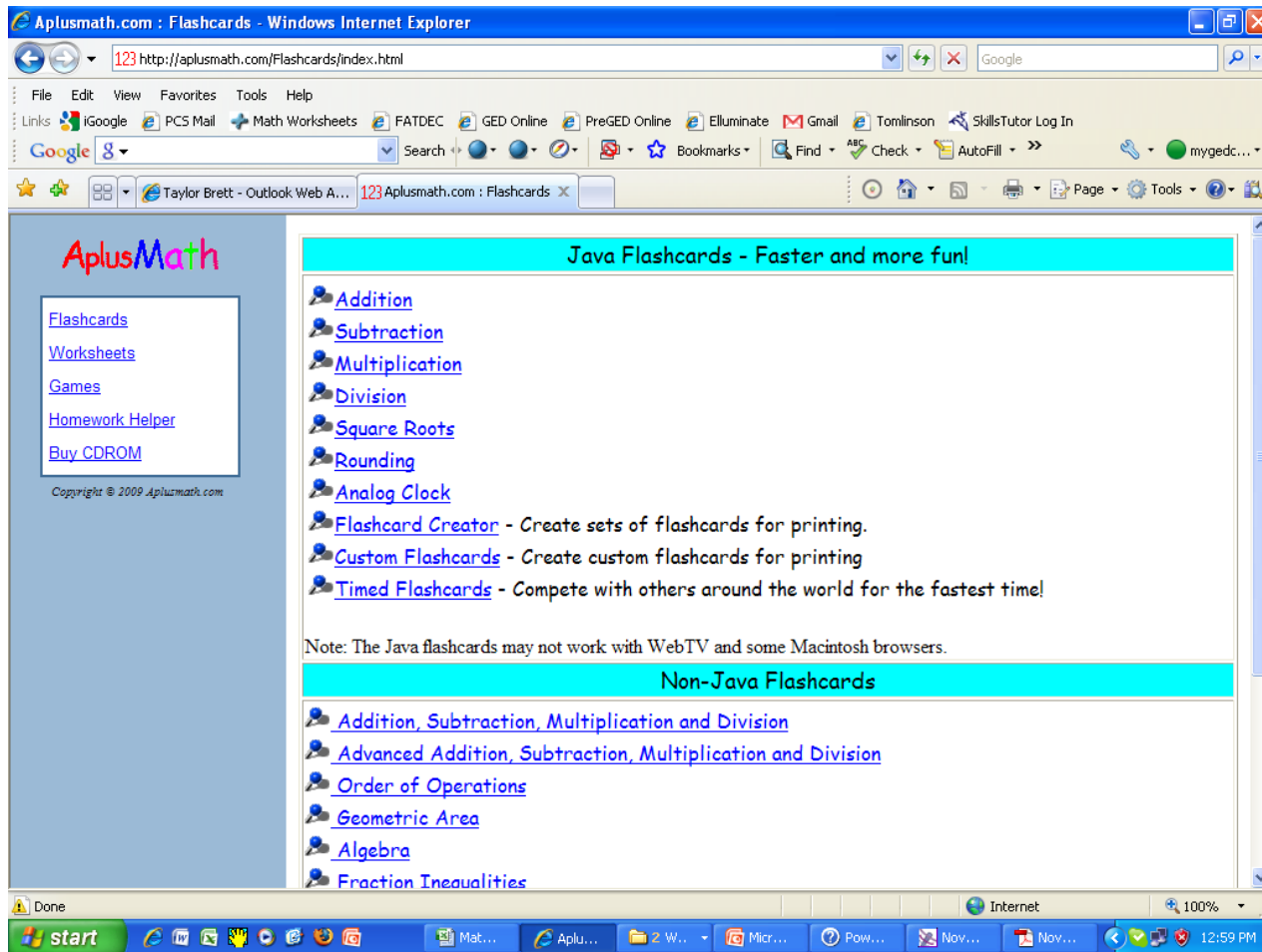
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## Flashcards with Negative Numbers

Select the types of problems you want to practice and then press the Start button.

Addition		Subtraction	
1 by 1 $\begin{array}{r} 2 \\ +3 \\ \hline 5 \end{array}$ <input type="checkbox"/>	2 by 1 $\begin{array}{r} 16 \\ +3 \\ \hline 19 \end{array}$ <input type="checkbox"/>	1 by 1 $\begin{array}{r} 6 \\ -4 \\ \hline 2 \end{array}$ <input type="checkbox"/>	2 by 1 $\begin{array}{r} 12 \\ -3 \\ \hline 9 \end{array}$ <input type="checkbox"/>
Multiplication		Division	
integers -12 to 12 $\begin{array}{r} 5 \\ \times 3 \\ \hline 15 \end{array}$ <input type="checkbox"/>		integers -12 to 12 $\begin{array}{r} 6 \\ \div 3 \\ \hline 2 \end{array}$ <input type="checkbox"/>	

Timer : Off

(If you leave the timer off, you can use the keyboard with the arrow keys to select the type of problem you want to practice.)

**Then click Start**

Done Internet 100% 1:03 PM

Watch your score change as you go.  
There are unlimited problems for you to practice on.

The screenshot shows a Windows Internet Explorer browser window displaying the Aplusmath.com Flashcards page. The browser's address bar shows the URL `http://aplusmath.com/Flashcards/index.html`. The page title is "Aplusmath.com : Flashcards". The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The Links bar contains various icons and links like Google, PCS Mail, Math Worksheets, FATDEC, GED Online, PreGED Online, Elluminate, Gmail, Tomlinson, and SkillsTutor Log In. The search bar shows "Google" and "Search". The bookmarks bar shows "Taylor Brett - Outlook Web A..." and "123 Aplusmath.com : Flashcards".

The main content area of the page is titled "Flashcards with Negative Numbers". Below the title, there are two yellow boxes: "Number correct : 0" and "Number attempted : 0". In the center, there is a math problem box containing the expression  $-6 + -1$  and a blank input field below it. Below the input field is an "Enter" button. At the bottom of the page, the URL [www.aplusmath.com](http://www.aplusmath.com) is displayed.

The left sidebar contains the AplusMath logo and a list of links: Flashcards, Worksheets, Games, Homework Helper, and Buy CDROM. At the bottom of the sidebar, it says "Copyright © 2009 Aplusmath.com".

The Windows taskbar at the bottom shows the Start button, several open applications (Internet Explorer, Mat..., Aplu..., 2 W..., Micr..., Pow..., Nov..., Nov...), and the system clock showing 1:07 PM on November 1st.

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