Homework:
Copy these Notes 2 times. As you copy the notes read out what you are writing. Read these Notes 5 times out loud. Check the boxes after you read.

## Negative and Positive Numbers!

## Rules for Multiplying or Dividing Negative and Positive Numbers

These rules do NOT tell me if I divide or multiply, they DO tell me if my answer is negative or positive!
1.) Multiply or Divide the numbers.
2.) Look at the the signs. If the signs of your numbers are the same, then your answer is always positive!
3.) If the signs of your numbers are different, then your answer is always negative!

Examples: $\quad-4 \times-2=8$ (signs are the same so my answer is positive)
$5 \times 4=20$ (signs are the same so my answer is positive)
$-3 \times 6=-18$ (signs are different so my answer is negative)
$5 \times-7=-35$ (signs are different so my answer is negative)

## Rules for Adding or Subtracting negative or positive numbers

These rules DO tell me if I will add or subtract AND if my answer is negative or positive!

FIRST... BEFORE you know if you are going to ADD or SUBTRACT...
Look to see if your problem has a minus (subtraction) sign or a plus sign between your numbers...

If your problem has a subtraction symbol, change the subtraction symbol to the addition symbol AND switch the sign of the number BEHIND the addition symbol to the opposite sign!

Examples: 5-10... $5+\mathbf{- 1 0}$
(minus 10 changes to plus -10)

$$
-6-2 \ldots-6+-2
$$

(minus 2 changes to plus -2)

$$
4--3 \ldots 4+3
$$

(minus - $\mathbf{3}$ changes to plus $\mathbf{3}$ )

$$
.10-\mathbf{- 1 2} \ldots-10+\mathbf{1 2}
$$

(minus $\mathbf{- 1 2}$ changes to plus 12)

NOW... follow these rules:
1.) If the signs of your numbers are the same , then ADD your numbers. If your numbers are positive then your answer is positive. If your numbers are negative then your answer is negative.

$$
\begin{array}{lll}
\text { Examples: } & -5+-4=-9 & 4+3=7 \\
-1+-11=-12
\end{array}
$$

2.) If the signs of your numbers are different, then SUBTRACT your numbers. Look at your numbers and decide which has more this will tell you the sign of your answer.

Examples: $6+-3=3$ (different signs, subtract... I have more positive... answer is positive)
$8+-10=-2$ (different signs, subtract... I have more negative... answer is negative)
$-12+8=-4$ (different signs, subtract... I have more negative... answer is negative) $-5+8=3$ (different signs, subtract... I have more positive... answer is positive)

