

NTI DAY #2

(weather-closed school day)

PACKET TWO

(Math)

General Directions:

Due to weather, Harrison County Schools are closed. In an effort to utilize this day on the school calendar, your child is assigned and should work on this “packet” of school work today. It will count as a grade for this subject. The work attached is specific to the subject listed above. Please contact your child’s teacher of this subject at 234-7123 in the event you/your student have questions on this packet. Staff and teachers reported to HCMS today and are available should you have questions.

While this is DUE no later than the last school day before the 3rd nine-weeks ends, we **strongly encourage** students to turn it in to their teacher as soon as it’s complete (soon after the NTI day) to avoid it being lost, eaten by the family pet, burned to keep warm, etc

Dear amazing students,

I'm sad that I don't get to spend this day with you at school but there's nothing like doing some math in your pj's curled up at home. ☺ Sometimes us grown-ups get just as excited about snow days. ☺☺ I hope you take time to sleep in and enjoy your day but don't forget to complete your math assignments.

These items are review of those integers ~~wh~~at we know we need to practice, practice, practice!!! I'm very proud of the work you have put in so far this year and I know you have had some challenges but you haven't given up! Math is not always easy but I believe in each of you! Continue to embrace that challenge and great things will happen!

Complete the following tasks and turn them in by the appropriate deadline. If you are not sure how to complete something, don't forget that you can contact me at the school during school hours. (I'm only one call away... or email.)

Happy reviewing! I'll see you when we return and can't wait to hear about your many snow adventures.

Sincerely,
Mrs. Peranger ☺

SEVENTH GRADE MAROON STUDENTS ROCK!!!!!!

NTI Lesson Plan

Checklist for Completion

- Review the operation rules for working with integers.
OR _____/10
 - Watch the following videos in the order given. *(see video page)*
 - Complete the "Adding and Subtracting Integers Drill". _____/10
 - Complete the "Multiplying and Dividing Integers Drill". _____/10
 - Complete the "All Operations Integers Drill". _____/10
 - Complete the "Simplifying Algebraic Expressions" _____/10
 - From the "Operations with Integers: Math Menu Project"
 - Complete 1 "Appetizer" worth 10 points _____/10
 - Complete 1 "Main Course" worth 25 points _____/25
 - Complete 1 "Dessert" worth 15 points _____/15
- TOTAL _____/100

Videos

PBS Math Club

<https://www.youtube.com/user/PBSMathClub>

- **What is an Integer? | PBSMathClub**
<https://www.youtube.com/watch?v=x0E4vxLydNY&t=116s>
- **Adding Negative Numbers | Mean Girls and Darth Vader | PBSMathClub**
<https://www.youtube.com/watch?v=nYdVKlyn1pE>
- **Subtracting Positive and Negative Numbers | The Matrix and Batman | PBSMathClub**
<https://www.youtube.com/watch?v=FsxXltuUFQM>
- **Multiplying Positive and Negative Numbers | Indie Math Family | PBSMathClub**
<https://www.youtube.com/watch?v=QmarTb7wXro>
- **Dividing Positive and Negative Numbers | The News | PBSMathClub**
<https://www.youtube.com/watch?v=Fre5q65sj0w>

Optional:

- **What is an Integer? | YouTube Challenge | PBSMathClub**
<https://www.youtube.com/watch?v=aFvZEEfl3hU&feature=youtu.be>
- **Adding Negative Numbers | YouTube Challenge | PBSMathClub**
<https://www.youtube.com/watch?v=N4Y1F34FOdc>
- **Adding and Subtracting Signed Numbers | YouTube Challenge | PBSMathClub**
<https://ket.pbslearningmedia.org/resource/29f836c2-5baa-4685-990c-dee1bc0f22bb/adding-and-subtracting-signed-numbers-pbs-math-club/>

Integer Rules

Add

Same Sign

Add and take
the sign

$$\begin{aligned}(-3) + (-4) &= -7 \\ 3 + 7 &= 10\end{aligned}$$

Different Sign

Subtract and take
the sign of largest
absolute value

$$\begin{aligned}(-5) + 9 &= 4 \\ (-13) + 8 &= -5\end{aligned}$$

Subtract

Change to add the opposite

Keep, Change, Change

$$\begin{aligned}(-3) - (+4) &= (-3) + (-4) \\ (-5) - (-9) &= (-5) + (+9)\end{aligned}$$

Multiply/Divide

Same Sign

Positive answer

Different Sign

Negative answer

Adding and Subtracting Integers Drill

Name _____ Date _____

Add or subtract.

$-6 + -9$	$-11 + 5$	$-11 - -8$	$-10 + -7$	$-3 - 7$
$-4 + 19$	$-22 + -6$	$30 - 7$	$-9 - 6$	$12 + -7$
$-17 + -8$	$-12 + 6$	$-1 - -25$	$16 + -29$	$20 + -8$
$17 - -9$	$-11 + -2$	$-14 + 9$	$-20 - 22$	$19 + -10$
$-17 - 9$	$-11 + 9$	$-11 + -7$	$15 - 8$	$-7 - -4$

Multiplying and Dividing Integers Drill

Name _____ Date _____

Multiply or Divide.

$-36 \div -4$	$-3(4)$	$21 \div -3$	$-32 \div -4$	-6×-11
$12(-10)$	$5(-12)$	$63 \div -9$	$-9(-7)$	$6(-2)$
$-5(-5)$	$42 \div -7$	$-8(-6)$	$-36 \div -6$	$4(-7)$
$1(-7)$	$-48 \div -12$	$-54 \div 9$	$-3(-8)$	$100 \div -10$
$6(-9)$	$72 \div -6$	$-4 \div -2$	$7(-3)$	$-9(-2)$

All Operations Integers Drill

Name _____ Date _____

Add, subtract, multiply or divide.

$-7(-5)$	$-3 + 7$	$11 - -8$	$-12 \div -3$	$-6(-9)$
$-12 + 9$	$-2 - 3$	$32 \div -8$	$-8 - 13$	$-2 + -12$
$-11 - 5$	$-48 \div -6$	$-1 + 22$	$6(-6)$	$5 - 8$
$-4(-7)$	$-28 \div -4$	$-8 + -7$	$20 - -4$	$4 + -10$
$-35 \div -7$	$-13 + 6$	$-9(-8)$	$15 - 9$	$-81 \div -9$

Name : _____ Score : _____

Teacher : _____ Date : _____

SHOW WORK! **Simplifying Algebraic Expressions** *SHOW WORK*

1) $-6d + \frac{x}{-6}$ use $x = -12$ and $d = 5$

2) $5r + 8b$ use $r = -4$ and $b = 6$

3) $3(-6k - 4c) - 8$ use $c = 6$ and $k = -9$

4) $\frac{d}{2} - 9 - 4k$ use $d = 6$ and $k = 3$

5) $9 - 2n + 5 + 8b$ use $n = -5$ and $b = 1$

NAME _____

Due Date _____

OPERATIONS WITH INTEGERS: MATH MENU PROJECT

Choose one activity from each category below. Circle it. Complete the task and staple them all to this paper.

50 POINTS

APPETIZER 10 POINTS	Use the letters in the word "INTEGER" to make an acrostic poem or make an artistic design. Include definition, examples, or real world application in your poem or drawing.	Find 12 examples in the newspaper, a magazine, or on the internet. Clip them out and create a collage of your findings. At least $\frac{1}{4}$ of your numbers must be negative.
MAIN COURSE 25 POINTS	Create a flipbook or poster explaining the rules for adding, subtracting, multiplying, and dividing integers. Include 2 examples for each.	Write a poem, rap, cheer, or song that explains the rules for adding, subtracting, multiplying, or dividing integers. Record it (if you can) and send it in email to your math teacher.
DESSERT 15 POINTS	Create a comic about a shark and a scuba diver. Include terms like sea level, absolute value, and integer in your comic.	Create an integer alphabet. Start with A = -12 and continue to Z = 13. Find the value of your first and last name. Compare your first and last name with $<$, $>$, or $=$.

POINTS EARNED _____