Name:

NTI DAY #2

(weather-closed school day)

PACKET TWO Advenced (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

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 rational and irrational numbers and the last page may have a sprinkle of new content that we may not have covered much before this snow day. Try it anyway! Then you can bring those questions to class or if you just can't wait, you can contact me during school hours. (I'm only one call away... or email.) I can't wait to hear from you!

Happy reviewing and I can't wait to hear about your many snow adventures.

Sincerely, Mrs. Persinger

SEVENTH GRADE MAROON STUDENTS ROCK! of Course my gold advanced Students

do as well

Review

Choose the best answer.

- 1. Which number is irrational?
 - **A.** $-\frac{213}{2}$
 - **B.** 3.12
 - **c.** √64
 - **D.** 9.31307...

- Which is the best approximation for $\sqrt{55}$?
 - **A.** 7
 - **B.** 7.41
 - **C.** 7.42
 - **D.** 8
- 3. Plot $\sqrt{51}$ on the following number line.



Complete each sentence.

- 4. $\sqrt{144}$ is rational because _____
- 5. 10π is irrational because _____

Approximate each number to the nearest tenth.

6. $\sqrt{90}$

7. √71

8. $\sqrt{72}$

Write each decimal as a fraction.

9. 0.8

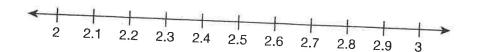
10. 0.89

11. 0.86

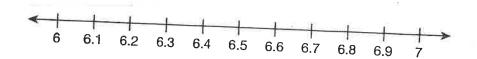
Choose the best answer.

- 12. Which number is rational?
 - **A.** $-\sqrt{9}$
 - **B.** 0.010010001...
 - **C.** $\sqrt{65}$
 - **D.** $\sqrt{-100}$

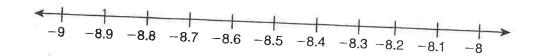
- 13. Which is the best approximation for $\sqrt{44}$?
 - **A.** 6.6
 - **B.** 6.63
 - **C.** 6.64
 - **D.** 7
- **14.** Plot $\sqrt{6}$ on the following number line.



15. Plot $\sqrt{47}$ on the following number line.



16. Plot $-\sqrt{77}$ on the following number line.



Write three equivalent decimals for each number.

- **17.** −132
- **18.** 93.3
- **19.** 0.09
- **20.** -4.2323

. 0	.3	22.				0.18	
- I., 3	3.63	25.	2.90			9.7	
	mine the two closest		for each irra $\sqrt{5}$	tional	number.		
7. 1	√88	28.	γ5				
1	$\sqrt{11}$ is between	and		al :4			
2. Jse t	$\sqrt{105}$ is between	ar	nd ver question	_, and	it is closer to _		
2. Jse t	$\sqrt{105}$ is between the situation and tab	ar le to answ ths of 4 hi	ver question king trails.	_, and	it is closer to _		
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Jse t	$\sqrt{105}$ is between the situation and tabs a calculated the lengular some trails form a	ar le to answ ths of 4 hi triangle o	ver question king trails. r a circle,	_, and	nd 34. Length Trail Valley View Butterfly Gul	ns of h	Hiking Trails Length (in km $2.5\sqrt{4}$ 2π

L. Committee acres

Page 1		Solve for n : $8 = n + 3$ $n = -1$	Graph the inequality $m > -4$ -5 -4 -3 -2 -1 0 1 2 3 4 *	Write an expression for this phrase:	Simplify: $6-2(c-4)$	© 2014 ASPM, Iowa State University and University 77. *(Issouri
Complete the table:	<i>b</i> -3 -6 0 -3 6 3	3)			4 when	© 2014 AS
Complete the table:	4n+7 3 5 9	Simplify: $7a + (2a + a)$	Evaluate: (-2) · (-4)	Evaluate: (-2) ³	Evaluate 8g $g = 2$ $g = -2$	
			ssion for this of a number		arase for this	
Complete the table:	u 3u 6 18 7 21 8 9 9 27	Evaluate: 9 · 4 – 6	Write an expression for this phrase: The difference of a number and 6	Evaluate: $4 + (9 \div 3) - 2^2$	Write a word phrase for this expression: $7-b$	
Algebra Foundations 1 List the ordered pair for each point:	J(,) O(,) shy	If $y > 9$, two possible values for y are and	Evaluate $4b + 2$ when $b = 1$	Write a word phrase for this expression: $n + 9$	Evaluate $2x + 4y$ when $x = 2$ and $y = -3$	