## Summer Work Packet for MPH Math Classes

Practice for students going into Math 6 Sept. 2018

Name:	

To be prepared to jump right into things in Math 6, please spend time this summer practicing your math facts. When you begin  $6^{th}$  grade, you should know your addition, subtraction, multiplication, and division facts from 1-12. This means you should know the answer to problems like 9 x 7 or  $48 \div 12$  without spending time working them out.

Good ways to practice include flash cards or practicing with a parent or friend.

There are lots of websites and apps that you can use to help practice your facts. It will be important you are fluent with them in the fall! If you have any questions, you may email Mrs. Reeve at <a href="mailto:sreeve@mphschool.org">sreeve@mphschool.org</a>.

<b>Math 6 Summer Reading</b>	<b>June 2018</b>	Name:		
THE NUMBER DEVIL by Hans Magnus Enzenberger				
<b>Publisher:</b> Holt Paperbacks (1	May 1, 2000) <b>ISB</b> N	<b>N-10:</b> 0805062998 <b>ISBN-13:</b> 978	3-0805062991	
you will be developing, analyze starting point. <i>You will need to</i> As you are reading, briefly analyze of the starting point.	zing and writing ab o read the first fou swer the following	t patterns and making connections bout mathematics and this book is ar chapters (only) of this book this questions. Bring in this sheet will reminder of what you read over	a great is summer. th your	
<b>1.</b> What patterns are discussed following chapters. Some chapters.		scribe one pattern you saw in each any, some few, or even none.	n of the	
First Night				
Second Night				
Third Night				

Fourth Night

2. Which new symbols did you learn about? What do they mean?

For the following questions, you may need to go back to the third chapter of THE NUMBER DEVIL. Feel free to use a calculator or spreadsheet.

**3.** What types of numbers are represented by the Prima Donna numbers?

**4.** What are the characteristics of these numbers?

**5.** After reading the passage below, explain why, mathematically, Robert can't divide by zero.

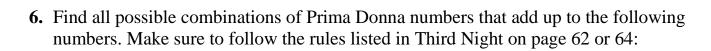
Robert thought and thought. "The only way I can come up with," he said at last, "is to divide it by nineteen.

Or into nineteen equal parts."

- "Doesn't count," the number devil replied. "It's too easy."
- "Or divide it by zero."
- "Out of the question."
- "Out of the question? Why?
- "Because it's forbidden. Dividing by zero is strictly forbidden."
- "What if I did it anyway?"

-The Number Devil p.53-54

(You may write your answer here)



12 18 24

30 36 42

7. Notice you did not use any 2's. Why do you think this was the case?

