***The Number Devil* – Reading Notes Chapter 1**

Take notes as you read chapter 1.

**Vocabulary:** Write the definitions in your own words.

**Infinite numbers (p.16 – 20)**

**Palindrome (p. 21-24)**

**1. What was Robert’s reaction to the Number Devil?**

**2. What do we know about the two main characters so far?**

*Robert:*

 *The Number Devil:*

**3. Did the Number Devil teach Robert any “math tricks?” List them below.**

**4. What math appears in the First Night?**

**5. Re-read the first two sentences on page 9, what do you think these two sentences mean? What do you think the author is conveying in these two sentences?**

**6. Fill in the blanks. On page 25 the number devil states, “ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ ? \_\_\_\_\_\_\_\_\_\_\_\_**

**is not allowed in mathematics! Mathematics is an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ science!”**

**Describe what this means and why it is important to math class.**

**7. The Chewing Gum Problem**

The Number Devil and Robert discussed the chewing gum problem on pages 18-20. Complete the table below.

|  |  |  |
| --- | --- | --- |
| **Description** | **Number Devil Writes** | **What does it equal?** |
| 1 piece of gum not split at all | $$\frac{1}{1}$$ |  |
| 1 piece of gum split in 2 pieces | $$\frac{1}{1+1}$$ | $$\frac{1}{2}$$ |
| 1 piece of gum split in 2 pieces2 times |  |  |
| 1 piece of gum split in 2 pieces 3 times |  |  |
| 1 piece of gum split in 2 pieces 4 times |  |  |
| 1 piece of gum split in 2 pieces 5 times |  |  |

 **8. The Number Devil states he can make all numbers out of ones.**

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|  |  |  | **1** |
|  |  | **x** | **1** |
|  |  |  | **1** |
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|  |  | **1** | **1** |
|  | **x** | **1** | **1** |
|  |  | **1** | **1** |
|  | **1** | **1** |  |
|  | **1** | **2** | **1** |
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|  |  | **1** | **1** | **1** |
|  | **x** | **1** | **1** | **1** |
|  |  | **1** | **1** | **1** |
|  | **1** | **1** | **1** |  |
| **1** | **1** | **1** |  |  |
| **1** | **2** | **3** | **2** | **1** |

**If you continue this pattern, will you make all the numbers from 0-9?**

**Is the Number Devil correct? Why or why not?**

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|  |  |  | **1** | **1** | **1** | **1** |
|  |  | **x** | **1** | **1** | **1** | **1** |
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|  | **x** | **1** | **1** | **1** | **1** | **1** |
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|  |  |  |  |  |  | **1** | **1** | **1** | **1** | **1** | **1** |
|  |  |  |  |  | **X** | **1** | **1** | **1** | **1** | **1** | **1** |
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|  |  |  |  |  |  | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
|  |  |  |  |  | **X** | **1** | **1** | **1** | **1** | **1** | **1** | **1** |
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