**Lesson 8 Notes: Subtraction of Whole Numbers**

**Definition of Subtraction:**

Manipulatives like Base 10 Blocks are useful for teaching subtraction. 1([Video](https://www.youtube.com/watch?v=JjpJVvvC-jI))

**Integers positive and negative whole numbers**

***“Taking Away Concept”***

**Example 1:** Supposed you have 8 basketballs and you give 3 basketballs away. How many basketballs do you have left?

21



***“Comparison Concept”***

**Example 2:** Supposed you have 8 basketballs and someone else has 4 basketballs. How many more basketballs do you have?



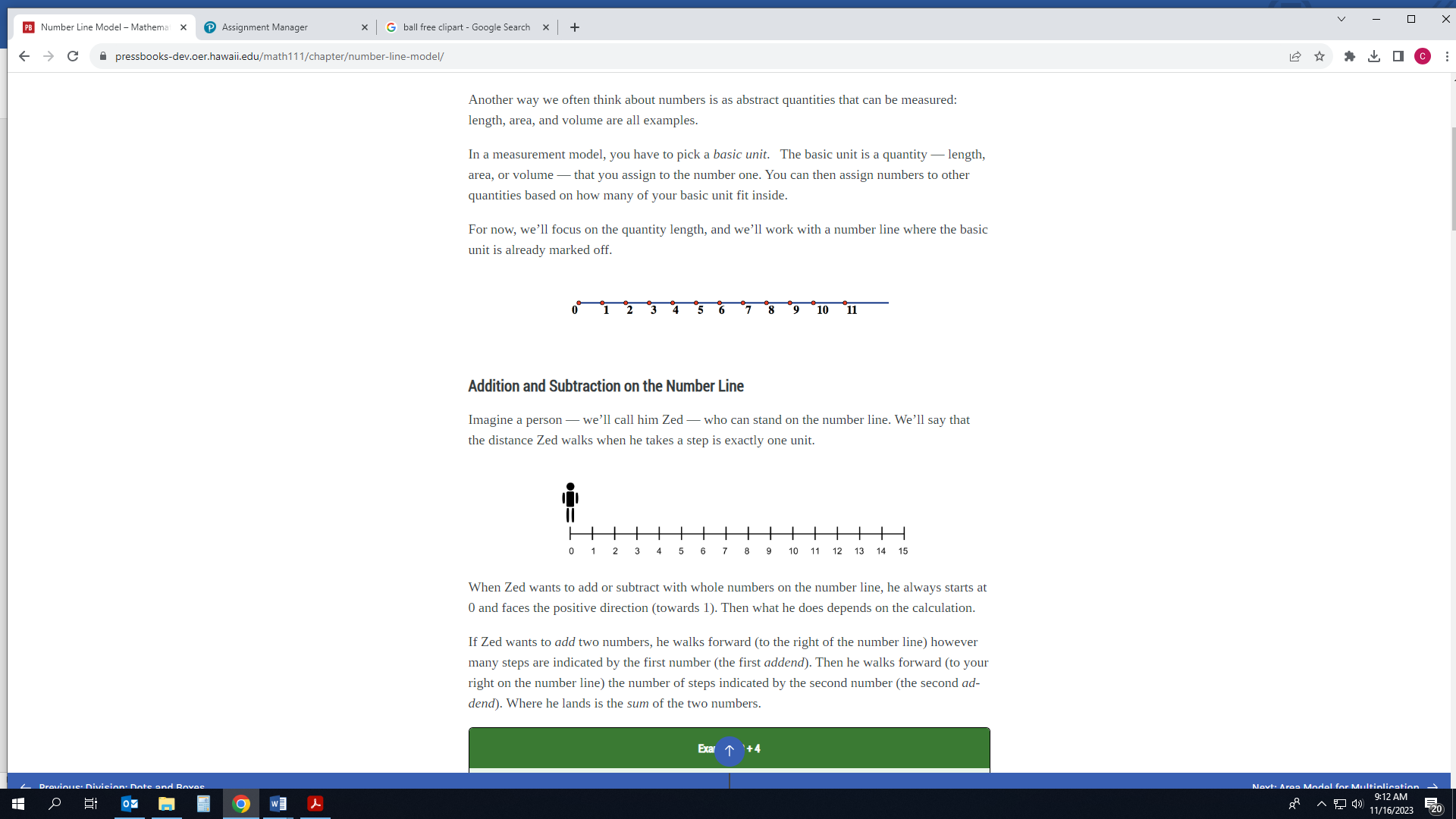
***“Missing Addends Concept”***

**Example 3:** Supposed you have 5 basketballs and need 8 basketballs to take to the tournament. How many more basketballs do you need?



**“*Number Line Model” -***When Zed wants to *subtract* two numbers, he walks forward (to the right on the number line) however many steps are indicated by the first number (the *minuend*).  Then he walks *backwards* (to the left on the number line) the number of steps indicated by the second number (the *subtrahend*).  Where he lands is the *difference* of the two numbers. [Textbook Video](https://youtu.be/GHtV1qYDM5Q)

**Zed**



**Left-to-Right Subtraction**

**Exercise 4:** Subtract using left-to-right subtraction

325 86

- 58 - 27

**Algorithms for Subtraction**

11 – 3 = 8

**Add Up Method for Subtraction**

**Exercise 6:** Subtract using Add Up Method.

325 542

- 58 - 258

**Partial Differences for Subtraction**

**Exercise 5:** Subtract using Partial Differences.

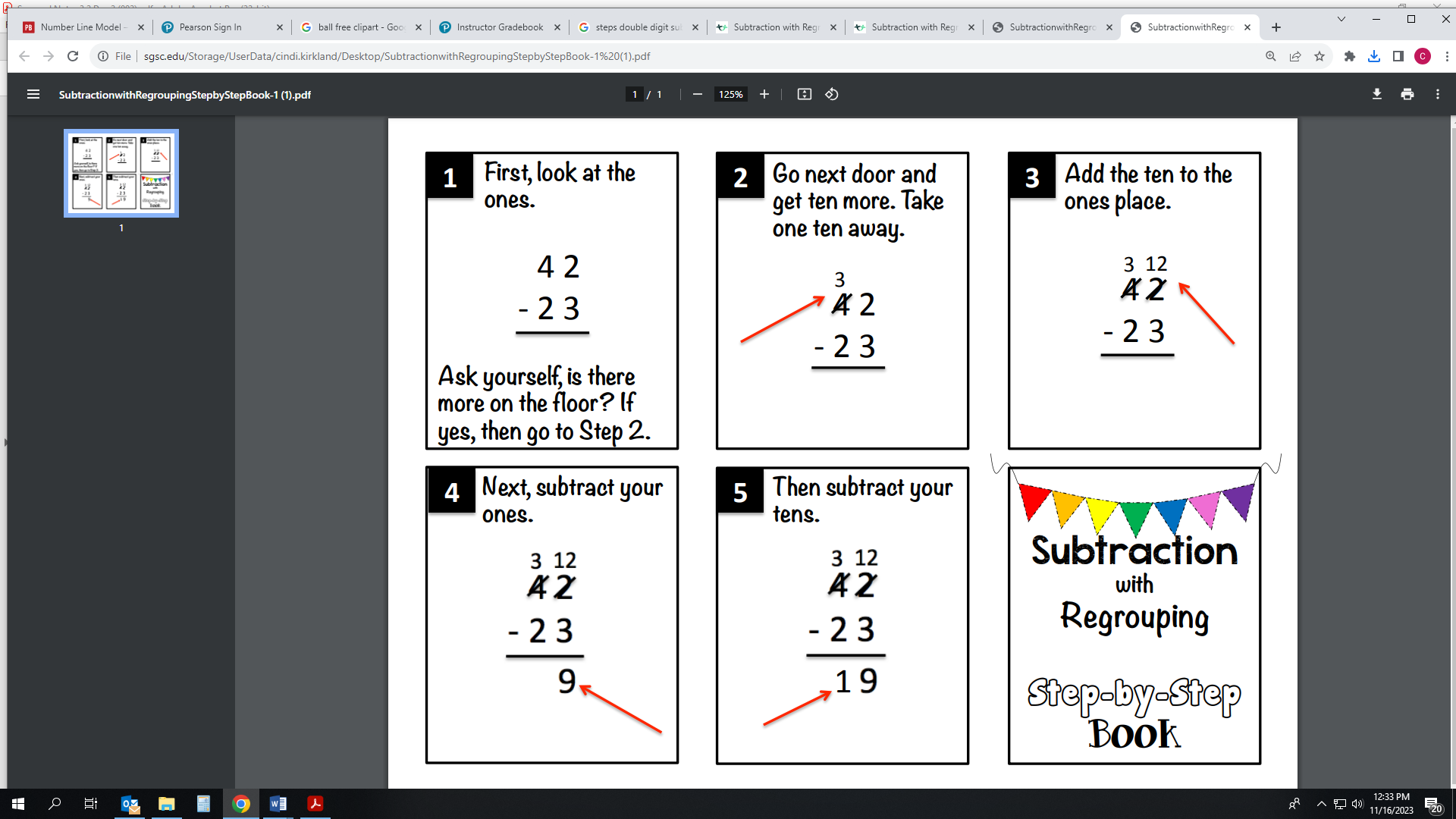
325 542

- 58 - 258

**Traditional “Borrowing” Method for Subtraction**

379 7132

- 58 - 4568



**Try This New Approach:** Subtract a consistent number from the subtrahend and minuend (terms used in subtraction).

4001

- 2873

You Try:

3102

- 1467

3

**References**

1YouTube. (2020, June 30). *Subtraction within 50 with regrouping – base-10 blocks and Place Value Chart*. YouTube. https://www.youtube.com/watch?v=JjpJVvvC-jI

2Hernandez, Beverly. (2021, September 1). *Basketball Printables*. Retrieved from <https://www.thoughtco.com/free-basketball-printables-1832363>

*3Subtraction with regrouping step-by-step book*. TPT. (n.d.). https://www.teacherspayteachers.com/Product/Subtraction-with-Regrouping-Step-by-Step-Book-1659323