NUMBERS

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# Lesson 2: Composing and Decomposing Numbers to 200

Discussion:

✎ Composing and decomposing numbers is when we build a number from its parts, or break a number down into its parts.

✎ By parts, we usually mean a numbers' hundreds, tens, and ones.

✎ Recall your place values:
- ✓ In the number 147:
  - ▪ 14**7** is the ones column value
  - ▪ 1**4**7 is the tens column value
  - ▪ **1**47 is the hundreds column value

✎ Now let's decompose the number 147:
- ✓ How many hundreds are in the number above?
  - ▪ There is **1 group of 100** in the number **1**47.
- ✓ How many tens are in the number above?
  - ▪ There are **4 groups of ten** in the number 1**4**7.
  - ▪ Did you say 40? Remember, 40 is a <u>name</u> of the number that <u>means</u> 4 groups of ten.
- ✓ How many ones are in the number above?
  - ▪ There are **7 ones** in the number 14**7**.
- ✓ So when we break a number up into its parts, or decompose it, we're simply showing each place value separately.
- ✓ 147 looks like this: 100 + 40 + 7

✎ Now let's compose a number that is already decomposed.
- ✓ Here are the numbers parts: 100 + 30 + 2
- ✓ What do you think it will be?
- ✓ 100 + 30 = 130, 130 + 2 = 132.
- ✓ Did you get 132?

Activity:

Building and Breaking Down Numbers

Building and Breaking Down Numbers
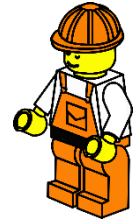
Build the numbers from the pieces given:

1. $100 + 50 + 8$ 6. $100 + 20 + 1$

2. $100 + 90 + 5$ 7. $100 + 10 + 3$

3. $100 + 30 + 2$ 8. $100 + 60 + 4$

4. $100 + 70 + 7$ 9. $50 + 2$

5. $100 + 40 + 9$ 10. $100 + 80 + 6$

Decompose the numbers into their parts.

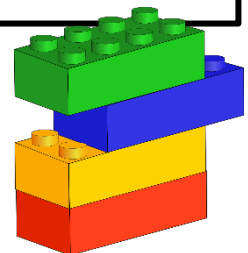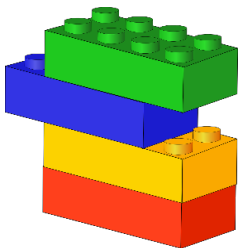11. **147**   16. **132**

12. **178**   17. **114**

13. **126**   18. **151**

14. **199**   19. **103**

15. **54**   20. **165**

Lesson 3: Comparing Values of Whole Numbers to 200

Discussion:

✎ Comparing values is looking at numbers and determining the higher and lower values

✎ Imagine going to the story to buy a book. If one book costs $13 and another costs $17, you need to know the values of those numbers to know which is more expensive.

Activity:

Comparing Values

Comparing Values

Circle the highest number in the set.

1. 76 67 117
2. 123 94 132
3. 99 101 19
4. 66 167 75
5. 143 49 89
6. 111 62 121
7. 85 89 118
8. 176 113 62
9. 98 102 89
10. 195 98 194

Circle the lowest number in the set.

11. 177 77 117
12. 64 164 146
13. 18 81 181
14. 137 67 147
15. 199 197 198
16. 54 16 118
17. 12 21 200
18. 15 5 195
19. 41 14 147
20. 11 85 162

Name any number with…

1. A value higher than 127.   _____
2. A value lower than 56.   _____
3. A value higher than 116 but lower than 122.   _____