

## Place Value and Whole Numbers

**Objectives:** 4.NBT.A.1, 4.NBT.A.2

Place Value, Saying a number out loud. Multiplying and dividing by 10. Decompose it into parts.

**Warm-up Problem:** Use the numbers below to make the number **12** by combining them with appropriate mathematical symbols. You can rearrange them in any way you want, but be sure to use all 4 numbers.

**4,4,8,6**

1. How do we say the number 5,288,917,843,335,881?
2. How do we say the number 83,243,765,432?
3. How do we say the number 626,490,000,156,712,154?
4. Decompose the number 3,576 into a sum of parts.
5. Decompose the number 104,329 into a sum of parts.
6. Multiply the number 457 by 10.
7. Divide the number 2,440 by 10.

Recap Problems:

1. How do we say the number 62,305,956,411,042,333?
2. Decompose the number 36,871 into a sum of parts.
3. Multiply the number 5,892 by 10.
4. Divide the number 657,360 by 10.

1. How do we say the number 56,702,055,128?
2. How do we say the number 909,611,142,890,304?
3. How do we say the number 78,800,000,000,361,000?
4. Decompose the number 3,732 into a sum of parts.
5. Decompose the number 3,141,592 into a sum of parts.
6. Decompose the number 6,391,045 into a sum of parts.
7. Which digit of 845,219 is in the 10-thousands place?
8. Which digit of 83,390 is in the hundreds place?
9. Which digit of 468 is in the tens place?

**Challenge Problem:** How do we say the number 12,345,678,909,099,876,543,210

## Rounding and Comparing Whole Numbers

**Objectives:** 4.NBT.A.2, 4.NBT.A.3

Comparing whole numbers and rounding whole numbers.

**Warm-up Problem:** Use the numbers below to make the number **10** by combining them with appropriate mathematical symbols. You can rearrange them in any way you want, but be sure to use all 4 numbers.

**3,5,2,2**

1. Round each number below to the nearest 10, 100, 1,000, and 100,000.

Round to the nearest	10	100	1,000	100,000
77				
123				
30,219				
4,444				
524,288				
12,345,678				

2. Compare each pair of numbers below by supplying the correct sign (<, >, or =).

344 \_\_\_\_\_ 433  
12,388 \_\_\_\_\_ 12,299  
3,213 \_\_\_\_\_ 6,512  
812,773 \_\_\_\_\_ 812,601  
524,288,378 \_\_\_\_\_ 524,239,217  
12,345,678 \_\_\_\_\_ 9,266,404

3. Round to the nearest 10: 34,468  
4. Round to the nearest 10,000: 678,325  
5. Round to the nearest 10,000: 45,613,043  
6. Round to the nearest 100: 57,692  
7. Round to the nearest 1,000,000: 484,352,221  
8. Compare each pair of numbers below by supplying the correct sign (<, >, or =).

64 \_\_\_\_\_ 46  
1,338 \_\_\_\_\_ 1,338  
7,658 \_\_\_\_\_ 6,442  
810,453 \_\_\_\_\_ 810,621  
5,324,378 \_\_\_\_\_ 5,315,217  
127,888,345,678 \_\_\_\_\_ 127,889,266,404

1. Round each number below to the nearest 10, 100, 10,000, and 1,000,000.

Round to the nearest	10	100	10,000	1,000,000
655				
19,047				
666,392				
8,777,777				
909,445,534				
87,878,787				

2. Compare each pair of numbers below by supplying the correct sign (<, >, or =).

545 \_\_\_\_ 611

32,355 \_\_\_\_ 32,349

183,213 \_\_\_\_ 187,902

43,773 \_\_\_\_ 43,773

668,378,321 \_\_\_\_ 668,374,689

839,938 \_\_\_\_ 389,892,121

16,121,456 \_\_\_\_ 16,121,546

34,678,318 \_\_\_\_ 43,890,405

3. Round to the nearest 100: 35,642

4. Round to the nearest 10,000: 127,313

5. Round to the nearest 1,000: 57,612,021

6. Round to the nearest 100: 89,512

7. Round to the nearest 1,000,000: 834,705,252

**Challenge Problem:** What am I?

- I am a 3 digit number.
- When rounding to the nearest 10, I round to 540.
- If you add 6 to me and then round to the nearest 100, you get 600.