4th & 5th Grade Math with Math Dad and Science Mom

Rounding and Comparing Whole Numbers Adding and Subtracting Whole Numbers	4 6
Adding and Subtracting Whole Numbers	6

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.

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.

$$3,576 = 3000 + 500 + 70 + 6$$

5. Decompose the number 104,329 into a sum of parts.

$$104,329 = (00,000 + 4,000 + 300 + 20 + 9.$$

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? 62 quadrillion, 305 trillion, 956 billion, 411 million, 42 thousand, 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.

$$3,141,592 = 3,000,000 + 100,000 + 40,000 + 1000 + 500 + 90 + 2.$$

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.

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	80	00	Ö	0
123	120	(00)	0	0
30,219	30,220	30,200	30,000	0
4,444	4,440	4,400	4,000	O
524,288	524,290	524, 300	524,060	500,000
12,345,678	12,345,680	12,345,700	12,346,060	12,300,000

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

- 3. Round to the nearest 10: $34,468 \approx 34,470$
- 4. Round to the nearest 10,000: 678,325 ≈ 680,000
- 5. Round to the nearest 10,000: $45,613,043 \approx 45,610,000$
- 6. Round to the nearest 100: 57,692 ≈ 57,700
- 7. Round to the nearest 1,000,000: $484,352,221 \approx 484,000,000$
- 8. Compare each pair of numbers below by supplying the correct sign (<, >, or =).

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	660	700	0	0
19,047	19,050	19,000	20,000	0
666,392	666,390	666,400	670,000	1,000,000
8,777,777	8,777,780	8,777,800	8,780,000	9,000,000
909,445,534	969,445,530	909,445,500	909,450,600	909,000,000
87,878,787	87,878,790	87,878,860	87,880,000	88,600,000

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

- 3. Round to the nearest 100: 35,642 \approx 35,600
- 4. Round to the nearest 10,000: $127,313 \approx 130,000$
- 5. Round to the nearest 1,000: $57,612,021 \approx 57,612,000$
- 6. Round to the nearest 100: 89,512 \approx 89,500
- 7. Round to the nearest 1,000,000: 834,705,252 $\approx 35,000,000$

Challenge Problem: What am I? 544

- 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.