Number Sense – Pt 3

Pre-requisites:

- ✓ **Place Value**
- ✓ **Number Forms**

Topics:

- **Comparing Numbers & Ordering Numbers**
  - Numbers with different largest unit
  - Numbers with the same largest unit
  - Numbers with multiple units the same.
  - Numbers written in different forms.
- **Completing number patterns**
  - Find 1 thousand more and 1 thousand less.
  - Find 10 thousand more and 10 thousand less.
  - Find 100 thousand more and 100 thousand less.
- **Finding Mid-point of two numbers**
  - Find mid-point between tens
  - Find mid-point between hundreds
  - Find mid-point between thousands
  - Find midpoint between ten thousand
- **Rounding off numbers**
  - To the nearest tens
  - To the nearest hundreds
  - To the nearest thousands
  - To the nearest ten thousand.

SPRINT A

1.	1 × 4 =		2.	7 × 4 =	
3.	4 × 1 =		4.	4 × 7 =	
5.	2 × 4 =		6.	8 × 4 =	
7.	4 × 2 =		8.	4 × 8 =	
9.	3 × 4 =		10.	9 × 4 =	
11.	4 × 3 =		12.	4 × 9 =	
13.	4 × 4 =		14.	10 × 4 =	
15.	5 × 4 =		16.	4 × 10 =	
17.	4 × 5 =		18.	4 × 3 =	
19.	6 × 4 =		20.	1 × 4 =	
21.	4 × 6 =		22.	2 × 4 =	
23.	10 × 4 =		24.	4 × 9 =	
25	9 × 4 =		26.	4 × 4 =	
27	4 × 4 =		28.	4 × 3 =	
29	8 × 4 =		30.	4 × 2 =	
31	4 × 3 =		32.	4 × 7 =	
33	7 × 4 =		34.	4 × 8 =	
35	6 × 4 =		36.	11 × 4 =	
37	4 × 10 =		38.	4 × 11 =	
39	4 × 5 =		40.	12 × 4 =	
41	4 × 6 =		42.	4 × 12 =	
43	4 × 1 =		44.	13 × 4 =	

Practice 1: Write the following numbers in word form

a. 5024
b. 9408
c. 10340
d. 54337
e. 97682
f. 100359
g. 115607
h. 205691

Practice 2: Write the following in figures (standard form)

a. Two thousand, three hundred thirty-five.
b. Nine thousand, twelve
c. Thirty-four hundred
d. Seventeen thousand
e. Forty-eight thousand two hundred
f. One hundred fifty thousand, six.
g. Six million, five hundred forty-three thousand one hundred twenty.
h. Two million, two thousand, twenty-two.

Practice 3: Write the following numbers in value form.

a. Five hundred fourteen thousand, nine hundred seventy.
b. 478,230
c. 97682
d. 3 hundred thousands, 2 ten thousands, 2 hundreds, 1 ten, 5 ones.

Practice 4: Write the following numbers in expanded form

a. 10340
b. 54337
c. 97682
d. 100359
e. 115607

Application: S.E.A. Type problems

1. Draw and label the units on the place value chart to hundred thousand.

Hth	Tth	Oth	H	T	O

a. Use each of the digits 9, 8, 7, 3, 1, and 0 once to create a number that is between 7 hundred thousands and 9 hundred thousands.

b. In word form, write the number you created.

☞ _____

_____

_____

Comparing Numbers

1. Label the units in the place value chart. Draw place value disks to represent each number in the place value chart. Use <, >, or = to compare the two numbers. Write the correct symbol in the circle.

a. 600,015 ◯ 60,015

b. 409,004 ◯ 440,002

2. Compare the two numbers by using the symbols <, >, and =. Write the correct symbol in the circle.

a. 342,001 ◯ 94,981

b. 500,000 + 80,000 + 9,000 + 100 ◯ five hundred eight thousand, nine hundred one

c. 9 hundred thousands, 8 thousands 9 hundreds 3 tens ◯ 908,930

d. 9 hundreds 5 ten thousands, 9 ones ◯ 6 ten thousands 5 hundreds 9 ones

3. Compare the two numbers by using the symbols <, >, and =. Write the correct symbol in the circle.

a. 501,107 ◯ 89,171

b. 300,000 + 50,000 + 1,000 + 800 ◯ six hundred five thousand, nine hundred eight

c. 3 hundred thousands 3 thousands 8 hundreds 4 tens ◯ 303,840

d. 5 hundreds 6 ten thousands 2 ones ◯ 3 ten thousands 5 hundreds 1 one

4. Use the information in the chart below to list the height, in feet, of each skyscraper from shortest to tallest. Then, name the tallest skyscraper.

Name of Skyscraper	Height of Skyscraper (ft)
Willis Tower	1,450 ft
One World Trade Center	1,776 ft
Taipei 101	1,670 ft
Petronas Towers	1,483 ft

4. One astronomical unit, or 1 AU, is the approximate distance from Earth to the sun. The following are the approximate distances from Earth to nearby stars given in AUs:

   Alpha Centauri is 275,725 AUs from Earth.

   Proxima Centauri is 268,269 AUs from Earth.

   Epsilon Eridani is 665,282 AUs from Earth.

   Barnard's Star is 377,098 AUs from Earth.

   Sirius is 542,774 AUs from Earth.

   a. List the **names of the stars** and their distances in AUs in order from closest to farthest from Earth.

5. Arrange these numbers from least to greatest:

   7,550 5,070 750 5,007 7,505

6. Arrange these numbers from greatest to least:

   426,000 406,200 640,020 46,600

7. The areas of the 50 states can be measured in square miles.

   California is 158,648 square miles.
   Nevada is 110,567 square miles.
   Arizona is 114,007 square miles.
   Texas is 266,874 square miles.
   Montana is 147,047 square miles
   Alaska is 587,878 square miles.

   Arrange the **states** in order from least area to greatest area.

SPRINT B

1.	4 × 1 =		23.	9 × 4 =	
2.	1 × 4 =		24.	3 × 4 =	
3.	4 × 2 =		25.	8 × 4 =	
4.	2 × 4 =		26.	4 × 4 =	
5.	4 × 3 =		27.	7 × 4 =	
6.	3 × 4 =		28.	5 × 4 =	
7.	4 × 4 =		29.	6 × 4 =	
8.	4 × 5 =		30.	4 × 5 =	
9.	5 × 4 =		31.	4 × 10 =	
10.	4 × 6 =		32.	4 × 1 =	
11.	6 × 4 =		33.	4 × 6 =	
12.	4 × 7 =		34.	4 × 4 =	
13.	7 × 4 =		35.	4 × 9 =	
14.	4 × 8 =		36.	4 × 2 =	
15.	8 × 4 =		37.	4 × 7 =	
16.	4 × 9 =		38.	4 × 3 =	
17.	9 × 4 =		39.	4 × 8 =	
18.	4 × 10 =		40.	11 × 4 =	
19.	10 × 4 =		41.	4 × 11 =	
20.	1 × 4 =		42.	12 × 4 =	
21.	10 × 4 =		43.	4 × 12 =	
22.	2 × 4 =		44.	13 × 4 =	

Completing Number Patterns

1. Fill in the empty boxes to complete the pattern.

468,235	_____		471,235	472,235	_____

Explain in pictures, numbers, or words how you found your answers.

2. Fill in the blank for each equation.

   a. 1,000 + 56,879 = _____

   b. 324,560 – 100,000 = _____

   c. 456,080 – 10,000 = _____

   d. 10,000 + 786,233 = _____

3. The population of Barbados, in the year 2000 was two hundred nineteen thousand, seven hundred eighty-two people. The 2010 the population decreased by about 10,000. About how many people lived in Barbados 2010?
Explain in pictures, numbers, or words how you found your answer.

4. Fill in the blank for each equation.

   a. 10,000 + 40,060 = _____

   b. 21,195 – 10,000 = _____

   c. 999,000 + 1,000 = _____

   d. 129,231 – 100,000 = _____

   e. 122,000 = 22,000 + _____

   f. 38,018 = 39,018 – _____

5. 10,000 more than six hundred five thousand, four hundred seventy-two is _____.

6. 100 thousand less than 400,000 + 80,000 + 1,000 + 30 + 6 is _____.

7. 230,070 is _____than 130,070.

Ordering Numbers

Fill in the empty boxes to complete the patterns

150,010		170,010		190,010	

Explain in pictures, numbers or words how you got your answer.

	898,756	798,756			498,756

Explain in pictures, numbers or words how you got your answer.

744,369	743,369		741,369		

Explain in pictures, numbers or words how you got your answer.

	118,910			88,910	78,910

Explain in pictures, numbers or words how you got your answer.

1. In 2012, Charlie earned an annual salary of $54,098. At the beginning of 2013, Charlie's annual salary was raised by $10,000. How much money will Charlie earn in 2013? Use pictures, words, or numbers to explain your thinking.