Place Value: Unit 1 Lesson 1

Place value describes the position of a number and helps to determine its value.
◦ 0-9 have one digit
◦ 10-99 have two digits
◦ 100-999 have three digits and so on

5, 3 4 2

Examples:

Find the place value of the 7:
1) 7,531 _____
2) 371 _____
3) 5,731 _____
4) 1,073,102 _____

What is the value of the 4 in 9,482,000?

What number is in the 100s place in 6913?

What is the value of 5 in 6,650,000?

Practice:

Find the place value of the 4:
1) 476 _____
2) 8,453 _____
3) 39,374 _____
4) 3,741 _____
5) 43,938 _____

6) What is the value of the 8 in 364,782?

7) What is the value of the 2 in 349,392,381?

8) What number is in the 1s place in 98,726?

9) What number is in the 100s place in 922,198,292?

10) Write a number with a 5 in the tens place.

11) Write a number with a 3 in the 10,000s place.

Rounding Whole Numbers: Unit 1 Lesson 2

Rounding numbers helps to estimate values by simplifying them to make the numbers easier to work with.

1) Underline the number at the place value the question refers to.
- •This is the number we want to keep OR increase by 1 (round up)

2) Circle the number to the right of the underlined number

3) If the circled number is 4 or less, keep the underlined number.
If the circled number is 5 or more, increase the underlined number by 1.

4) Change all numbers after the underlined number to zero

Examples: Round to the hundreds place.

1) 534 _____

2) 34,792 _____

3) 1,953 _____

Round to the tens place:

1) 372 _____

2) 9 _____

3) 98 _____

Practice:

Round to the hundreds place

1) 203 _____
2) 37,292 _____
3) 999,997 _____
4) 38,844 _____
5) 649 _____
6) 12,496 _____
7) 741 _____
8) 834,492 _____
9) 94,234 _____
10) 111 _____

Round to the thousands place

11) 39,373 _____
12) 7,934 _____
13) 908 _____
14) 93,456 _____
15) 39,555 _____
16) 34,432 _____
17) 832,383 _____
18) 1,239,620 _____
19) 9,020 _____
20) 2,534 _____

Adding and Subtracting Large Numbers: Unit 1 Lesson 3

It is important to make sure you know how to add and subtract large numbers without a calculator for the non-calculator part of the exam.

Adding:
1) Line up the numbers in the same place value with the bigger number on top
2) Add down
3) If adding down gives you a double-digit number, "carry" the one over
Examples:
1) 352 plus 781   2) 4358 plus 1961

3) 952 plus 2382

Subtracting:
1) Line up number in the same place value with the number listed first on top.
2) Subtract down
3) "Borrow" 10 from the number to the left if needed
Examples:
1) 895 minus 340   2) 1071 minus 641

3) 4321 minus 495

Practice:
1) 257 plus 574   5) 348 plus 7777   9) 1000 minus 56

2) 77 plus 700   6) 2833 plus 893   10) 345 minus 129

3) 487 plus 1234   7) 472 plus 23   11) 881 minus 99

4) 3784 plus 182   8) 872 minus 84   12) 20,000 minus 4671

Adding and Subtracting Word Problems: Unit 1 Lesson 4

When facing a word problem, circle all numbers with the unit and underline what the problem is asking for. The hardest part of word problems is figuring out what the problem is asking for.

Examples:

Emily collects coins. She got 243 coins from her sister, 1208 coins from her mother, and 467 coins from her father. However, she lost 82 coins before putting them in her piggybank. How many coins does Emily have in her piggybank?

Sandy made 3 different towers of blocks. The first tower is 54 centimeters high, the second tower is 14 centimeters higher than the first and the third tower is 22 centimeters higher than the second. If Sandy combined the three towers into one tower, how tall would it be?

Practice:

1) Old McDonald has 530 chickens on his farm. 39 are rooster and the rest are hens. 20 of the hens are too old to lay eggs anymore. How many egg-laying hens does Old McDonald have on his farm?

2) For football season, Jason needs to buy cleats, a helmet and a uniform. The cleats cost $43, the helmet is $35 and the uniform costs $125. Jason's mom will give him $50 to help with the costs. How much will Jason spend for his football equipment?

3) 1,503 people bought tickets to see the choir concert at the local high school. 983 of those tickets were bought by women, the rest were bought by men. 17 of the women and 25 of the men couldn't make the performance. How many men were at the choir concert?

Adding Integers: Unit 1 Lesson 5

An Integer is a whole number (not a decimal or fraction) that can be positive or negative.

*If we are adding a positive number, we will be moving to the right on a number line.
*If we are adding a negative number, we will be moving to the left on a number line
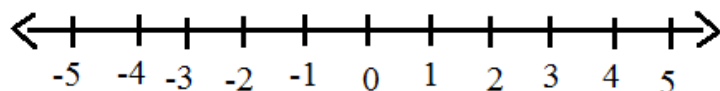
Example:

$$-5 + 8=$$

Example:
1) (-12) + 7

2) (-1) + (-10)

Practice:

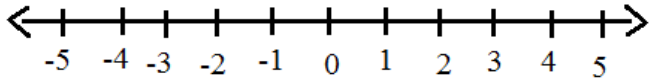|		
1) (-17) + (-11)	6) 13 + (-29)	11) -84 + (-27)
2) 48 – (-31)	7) (-8) + 133	12) 90 + (-373)
3) (-29) + 29	8) 48 + (-8)	13) -56 + 315
4) -134 + 90	9) -88 + 66	14) -35 + 78

Subtracting Integers: Unit 1 Lesson 6

If we are subtracting a negative number, ADD A LINE TO CHANGE THE SIGN.

-5 -4 -3 -2 -1 0 1 2 3 4 5

Example:

$$2 - (-2)$$

Example:

1) (-1) -10

2) 18 – 41

Practice:

1)(-17) - (-11)	6) 13 + (-29)
2) 48 – (-31)	7) (-8) – 36
3) (-29) - 29	8) 37 – (-2)
4) -125 - 18	9) -99 – 29
5) 567 – (-37)	10) 29 -39