Lesson 1
Introduction to Place Value

It is important to understand place value in order to gain a firm grasp of whole number and decimal concepts. Read this Place Value Chart below with your parent as your parent points out each specific place value present. The chart shows the place value of the number 128,500.

HUNDRED Thousands	TEN Thousands	Thousands	Hundreds	Tens	Ones
1	2	8	5	0	0
1 x 100,000	2 x 10,000	8 x 1,000	5 x 100	0 x 10	0 x 1
100,000	20,000	8,000	500	0	0

Each digit in the number 128,500 has a specific place value noted in the chart above. The 1 in the number is in the hundred thousands place; the 2 in the number is in the ten thousands place; the 8 in the number is in the thousands place; the 5 in the number is in the hundreds place; the first 0 is in the tens place; the next 0 is in the ones place.

Work through these examples with your parent to determine the place value of the bold digit for each problem.

1. 14,83**2**

2. 5**6**7

3. **1**34,820

4. 2**3**,020

5. 6**5**0, 200

COMPLETE CURRICULUM

To write a number in expanded form, use each digit, multiplied by the place value of the digit, and add each of these products together.

Example: Write 14,600 in expanded form

1 x 10,000 + 4 x 1,000 + 6 x 100 + 0 x 10 + 0 x 1

10,000 + 4,000 + 600 + 0 + 0

Example: Write 235,781 in expanded form

Write 45 in expanded form

To write a number using word form, simply write the words represented by the place value of each number, separated by commas.

Example: Write 481 in word form

Example: Write 12,300 in word form

Example: Write 132,450 in word form

COMPLETE CURRICULUM

Lesson 1 Worksheet

Part 1: Write the place value of the digit in bold text.

1. 3**2**,223

2. 41**0**,211

3. 9**0**

4. 1,2**5**2

5. 14**6**,240

6. 21**0**

7. **6**35,890

8. 23,2**7**2

9. **4**1,006

10. 266,76**5**

11. 443,**1**03

12. 19**0**

13. **9**4

14. 910,0**3**5

15. 888,57**6**

16. 4,53**2**

17. **6**,742

18. 10,4**8**5

19. 8**7**,321

20. **9**0,987

21. 245,03**8**

22. 48,52**3**

23. 1**9**,098

24. 8**5**,021

Part 2: Write each number in expanded form.

1. 8949

2. 64,529

3. 29

4. 675

5. 88

6. 67,808

7. 57

8. 67

9. 19

10. 73,370

11. 835

12. 3

COMPLETE CURRICULUM

Part 3: Write each number in word form.

1. 1,975

_____

2. 254

_____

3. 8,361

_____

4. 3,643

_____

5. 5,301

_____

6. 5,730

_____

7. 1,583

_____

8. 6,116

_____

9. 26

_____

10. 507,090

_____

11. 102

_____

12. 8,120

_____

13. 457,333

_____

14. 8,544

_____

15. 968,359

_____

16. 114,387

_____

COMPLETE CURRICULUM

Lesson 2
Understanding Millions and Billions

In lesson 1, we looked at the place value of numbers that were not any greater than a number in the hundred thousands. Now you will become familiar with numbers in the millions and billions. Look at the Place Value Chart below which has millions and billions added to it for the number 134,567,302,119.

Lesson 2 Place Value Chart

Hundred Billions	Ten Billions	Billions	Hundred Millions	Ten Millions	Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
1	3	4	5	6	7	3	0	2	1	1	9
1 x 100,000,000,000	3 x 30,000,000,000	4 x 1,000,000,000	5 x 100,000,000	6 x 10,000,000	7 x 1,000,000	3 x 100,000	0 x 10,000	2 x 1,000	1 x 100	1 x 10	9 x 1
100,000,000,000	90,000,000,000	4,000,000,000	500,000,000	60,000,000	7,000,000	300,000	00,000	2,000	100	10	9

COMPLETE CURRICULUM

The expanded form of the number 134,567,302,119 as we learned in the previous Lesson is:

100,000,000,000 + 30,000,000,000 + 4,000,000,000 + 500,000,000 + 60,000,000 + 7,000,000 + 300,000 + 2,000 + 100 + 10 + 9.

The word form of the number above as we learned in the previous lesson is: One hundred thirty-four billion, five hundred sixty-seven million, three hundred two thousand, one hundred nineteen.

Do the following with each Example:

Tell the place value of the bold digit.

Write the number in expanded form.

Write the number in word form.

Example: 2,**2**54,380   _____

_____

_____

Example: 43,**0**76,987,100   _____

_____

_____

Example: 8**8**,330,210   _____

_____

_____

Lesson 2 Worksheet

Part 1: Write the place value of the bold digit.

1. 2,43**2**,223

2. 901,41**0**,211

3. 9**0**5,682,117,340

_____

_____

_____

4. 1,2**5**2,380

5. 14**6**,240,110

6. 21**0**,549

_____

_____

_____

7. 63,890,763,281

8. 623,2**7**2

9. 5**4**1,006

_____

_____

_____

10. 266,76**5**

11. 443,**1**03

12. 19**0**

_____

_____

_____

13. 9,456,773

14. 910,0**3**5,815

15. 1,234,888,57**6**

_____

_____

_____

16. 364,53**2**

17. 6,742,445,110

18. 10,4**8**5,563

_____

_____

_____

19. 8**7**,321,976

20. 1,1**9**0,987

21. 3,245,03**8**,467

_____

_____

_____

22. 48,52**3**,130

23. 1**9**,098,467,200

24. 5,021,190

_____

_____

_____

COMPLETE
CURRICULUM

Part 2: Write each number in expanded form.

25. 1,975,345

_____

26. 2,566,788,344

_____

27. 8,361,455,100

_____

28. 343

_____

29. 5,301,300

_____

30. 530

_____

31. 1,583

_____

32. 6,116,220

_____

33. 26,567

_____

34. 507,090

_____

35. 102,284,190

_____

36. 820,657

_____

37. 7,333

_____

38. 544,677,899

_____

39. 98,359

_____

40. 114,387

_____

COMPLETE CURRICULUM

Part 3: Write each number in word form.

41. 8,949,653

_____

42. 64,529,902,134

_____

43. 29,563

_____

44. 675,420,100,300

_____

45. 88,458

_____

46. 6,865,132,189

_____

47. 57,455,679,045

_____

48. 67,520,100

_____

49. 19,763,907

_____

50. 7,345,120

_____

51. 835,376

_____

52. 3,984,975,900

_____

COMPLETE CURRICULUM