

# NS7-1 Place Value

The place values in 309 437 261 are:

hundred millions	hundred thousands	hundreds
ten millions	ten thousands	tens
millions	thousands	ones
↓	↓	↓
3	4	2
0	3	6
9	7	1

1. Write the next three place values greater than hundred millions, from largest to smallest.

billions

2. Underline the digit with the given place value.

- |                    |                  |                    |                   |
|--------------------|------------------|--------------------|-------------------|
| a) 250 329 120     | ten millions     | b) 791 250 329 120 | ten billions      |
| c) 791 250 329 120 | hundred millions | d) 791 250 329 120 | thousands         |
| e) 791 250 329 120 | billions         | f) 791 250 329 120 | hundred thousands |

3. Write the place value of the bold digit.

- |                    |                     |
|--------------------|---------------------|
| a) 861 359 746 323 | <u>ten billions</u> |
| b) 861 359 746 323 | <u>millions</u>     |
| c) 861 359 746 323 | _____               |
| d) 861 359 746 323 | _____               |
| e) 861 359 746 323 | _____               |
| f) 861 359 746 323 | _____               |

4. Write the number with the correct spacing, then write the place value of the digit 5.

- |                      |          |            |            |            |            |              |                 |
|----------------------|----------|------------|------------|------------|------------|--------------|-----------------|
| a) 1405897660213 =   | <u>1</u> | <u>405</u> | <u>897</u> | <u>660</u> | <u>213</u> | place value: | <u>billions</u> |
| b) 76312098532 =     | _____    | _____      | _____      | _____      | _____      | place value: | _____           |
| c) 995132498763 =    | _____    | _____      | _____      | _____      | _____      | place value: | _____           |
| d) 3542706 =         | _____    | _____      | _____      | _____      | _____      | place value: | _____           |
| e) 5410328 =         | _____    | _____      | _____      | _____      | _____      | place value: | _____           |
| f) 841073521960347 = | _____    | _____      | _____      | _____      | _____      | place value: | _____           |

5. Write each number in expanded form. Example: 74 512 = 70 000 + 4 000 + 500 + 10 + 2

- |            |       |
|------------|-------|
| a) 378 403 | _____ |
| b) 16 025  | _____ |
| c) 721 803 | _____ |

6. Write the number for each expanded form. Example: 50 000 + 600 + 40 = 50 640

- |                            |                 |                     |
|----------------------------|-----------------|---------------------|
| a) 30 000 + 4 000 + 50 + 3 | b) 600 000 + 30 | c) 40 000 + 200 + 5 |
| _____                      | _____           | _____               |



Thousands							
Hundreds							
Tens							
Units							
Decimal Point	.	.	.	.	.	.	.
Tenths							
Hundredths							
Thousands							
Ten-Thousands							
Hundred-Thousands							



# Lesson 13<sub>a</sub> Place value

A. Write each decimal.

10 and 6 tenths

31 hundredths

5 ten-thousandths

10.6

0.31 or .31

0.0005 or .0005

For decimals less than 1, sometimes a zero is written in ones place.

B. Give the place value of each 7.

millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones	tenths	hundredths	thousandths	ten-thousandths	hundred-thousandths	millionths
						2	0	0	0	7		
				7	4	6	0	3				
						8	2	7	4			
							0	0	0	0	1	7
					5	5	0	1	7	2		

ten-thousandths

hundreds

hundredths

millionths

thousandths

Write a decimal.

Give the place value of each 3.

1. 4 and 8 hundredths

9. 245.1632

2. 32 hundredths

10. 82.38072

3. 6 millionths

11. 13.024

4. 3 hundred-thousandths

12. 0.03

5. 2 and 345 millionths

13. 0.465938

6. 76 and 406 thousandths

14. 88.8243

7. 302 and 5 tenths

15. 300.5

8. 29 thousandths

16. 15.684913

# Lesson 14a

## Comparing and ordering decimals

A. Is .46 equal to .460?

ones	tenths	hundredths	thousandths
	4	6	
	4	6	0

$$.46 = .460$$

B. Compare the numbers. Use  $>$ ,  $<$ , or  $=$ .

$$2.53 \bigcirc 2.513$$

Remember,  $>$  means "is greater than," and  $<$  means "is less than."

Write the numbers with the same number of decimal places.

2.530     The ones and the tenths are the same.

2.513     Compare the hundredths.  $3 > 1$

$$2.530 > 2.513$$

$$2.53 > 2.513$$

Draw a ring around the number that is *not* equal to the other numbers.

1. 5.590

(5.059)

5.59

5. .80

.8

.08

2. .06

.0600

.006

6. 3.09

3.9

3.090

3. 4.07

4.070

4.007

7. 2.510

2.51

2.051

4. .7020

.720

.72

8. .1583

.01583

.15830

Compare the decimals. Use  $>$ ,  $<$ , or  $=$ .

9.  $.3 \bigcirc .23$

10.  $.5 \bigcirc .50$

11.  $.10 \bigcirc .11$

12.  $.7 \bigcirc .8$

13.  $.55 \bigcirc .5$

14.  $.7 \bigcirc .72$

15.  $.7 \bigcirc .07$

16.  $.08 \bigcirc .8$

17.  $.811 \bigcirc .8111$

18.  $.64321 \bigcirc .64311$

19.  $1.377 \bigcirc 1.378$

20.  $.00090 \bigcirc .0009$

For each exercise, write the decimals in order from least to greatest.

21. .79   .72   .80   .75

22. 3.226   3.220   3.224   3.222

23. .4   .04   .004   .0004

24. .0013   .0001   .013   .13

# Lesson 15a

## Adding and subtracting decimals

A. Find  $3.72 + 4 + 18.6$ .

$$\begin{array}{r} 3.72 \\ 4.00 \\ + 18.60 \\ \hline \end{array}$$

Line up the decimal points and places. Put a decimal point in the answer.

$$\begin{array}{r} 11 \\ 3.72 \\ 4.00 \\ + 18.60 \\ \hline 26.32 \end{array}$$

Add as you do with whole numbers.

B. Find  $50.2 - 17.96$ .

$$\begin{array}{r} 50.20 \\ - 17.96 \\ \hline \end{array}$$

Line up the decimal points and places. Write a 0 after 50.2 so that you can subtract in the hundredths column. Put a decimal point in the answer.

$$\begin{array}{r} 9 \quad 11 \\ 4 \cancel{10} \quad \cancel{12} \cancel{10} \\ - 17.96 \\ \hline 32.24 \end{array}$$

Subtract as you do with whole numbers.

Add.

1.  $\begin{array}{r} 103.8 \\ + 96.1 \\ \hline \end{array}$

2.  $\begin{array}{r} 2.407 \\ + 18.291 \\ \hline \end{array}$

3.  $\begin{array}{r} 13.2 \\ + 6.38 \\ \hline \end{array}$

4.  $\begin{array}{r} 65.56 \\ + 5.6 \\ \hline \end{array}$

5.  $216.4 + .137$

6.  $.02 + 14.1$

7.  $4.371 + 8.9$

8.  $.6 + .09 + .7$

Subtract.

9.  $\begin{array}{r} 15.84 \\ - 3.62 \\ \hline \end{array}$

10.  $\begin{array}{r} 234.2 \\ - 120.7 \\ \hline \end{array}$

11.  $\begin{array}{r} 47.5 \\ - 2.34 \\ \hline \end{array}$

12.  $\begin{array}{r} 38.82 \\ - 14.961 \\ \hline \end{array}$

13.  $89.07 - 41.58$

14.  $52.7 - .13$

15.  $.08 - .029$

16.  $91 - 68.7$

