Grade 6 Mathematics

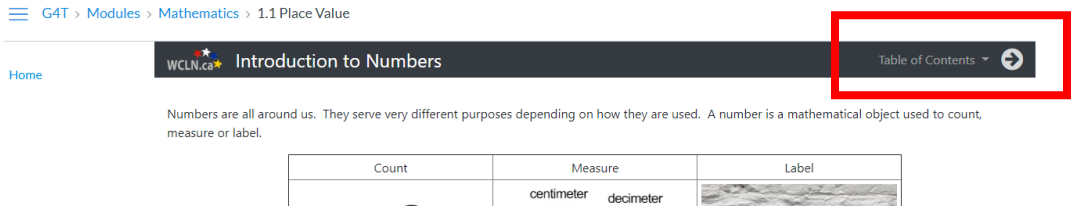
Week of Sept 28- Oct 2

Curricular Area: Numeracy

Lesson Materials

- Lessons for Section 1.1 Place Value
- Lessons for Section 1.2 Place Value Decimals
- 1.1-1.2 Place Values Learning Guide (This PDF)

Use the link above to open the lessons for Section 1.1 Place Value and 1.2 Place Value Decimals. On the lesson page, use the arrow next to the "Table of Contents" at the **top of the page** to move through the lessons. You can also click on the Table of Contents to open the menu so you can jump to a specific lesson page. **NOTE: You will continue with 1.2 Place Value Decimals next week, so do not worry if you do not finish all the questions in the Learning Guide.**



Work through the online lessons online. You can work at your own pace or follow the suggested schedule below. Complete the activities in your Learning Guide as you work through the lessons. You can print the Learning Guide, or, copy out the questions on a separate piece of paper. Be sure to try the games and practice quizzes as you make your way through the online lesson book.

Suggested Lesson Schedule

Monday (Lesson 1.1) • Introduction to Numbers • Place Value • Hockey Puzzle 1 • Hockey Puzzle 2 Tuesday (Lesson1.1) • Matching 1 • Matching 2 • Puzzle	Wednesday (Lesson 1.1) • Expanded Form • Name the Number • Find the Match • Practice Quiz Thursday (Lesson 1.2) • Decimal Place Values • Tenths Friday (Lesson 1.2) • Hundredths • Thousandths

Name:

UNIT 1 LEARNING GUIDE – NUMERACY

INSTRUCTIONS:

Using a pencil, complete the following questions as you work through the related lessons. Show ALL of your work as is explained in the lessons. Do your best and always ask questions if there is anything that you don't understand.

1.1 PLACE VALUE

1. Complete the table below by filling in all of the blank cells.

Place Value Chart

Period Name				Millions						Units		
Hundreds/ Tens/Ones	H	T	O	H	T	O	H	T	O			
Place Value Name	Hundred Billions					Millions		Ten Thousands			Tens	Ones
Value	100 000 000 000		1 000 000 000		10 000 000					100		1

2. Write the value of each *5* from the number below.

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Billions			Millions			Thousands			Units		
		5	5	2	1	7	5	3	8	6	5

d. _____

c. _____

b. _____

a. _____

3. Write the place value of the underlined digit using words, then write its value using numbers.

Ex. 89 9<u>3</u>0 Place value = *tens* Value = *30*

a. <u>1</u>0 742 671 Place value = _____ Value = _____

b. <u>4</u> 342 928 331 Place value = _____ Value = _____

c. 5<u>1</u> 732 Place value = _____ Value = _____

d. <u>6</u>00 235 971 Place value = _____ Value = _____

e. 245 75<u>9</u> Place value = _____ Value = _____

f. 7 <u>6</u>32 561 143 Place value = _____ Value = _____

g. 2 1<u>3</u>5 458 Place value = _____ Value = _____

4. Match the number to its equivalent in standard word form.

____ 123 341 253	a. one million two hundred five thousand three hundred
____ 12 053	b. seven billion six hundred thirty two million five hundred sixty seven thousand one hundred forty nine
____ 7 632 567 149	c. eight hundred twenty seven million one hundred twenty thousand fifty-three
____ 1 205 300	d. one hundred twenty three million three hundred forty one thousand two hundred fifty-three
____ 120 530	e. five hundred thirty
____ 827 120 053	f. twelve thousand fifty-three
____ 23 125 530	g. twenty three million one hundred twenty-five thousand five hundred thirty
____ 530	h. one hundred twenty thousand five hundred thirty

5. Write the following numbers in standard word form.

Ex. 89 930 *eighty-nine thousand nine hundred thirty*

a. 5232 _____

_____

b. 38 330 _____

c. 20 245 759 _____

d. 7 600 235 471 _____

e. 9 999 999 _____

6. Arrange the following numbers from smallest to largest:

a. 5 262 514 1 726 327 27 361 717 28 381

_____

b. 526 154 2 737 186 72 985 11 527 371

_____

c. 812746 1028472 673281 1625163

_____

d. 32 637 189 326 261 638 23 472 716 323 720 928

_____

7. Write the following numbers in expanded form. *Reminder: Start with the biggest number first.*

Ex. 1235 = ***1000 + 200 + 30 + 5***

a. 55 891 = _____

b. 7 659 423 = _____

_____

c. 3 290 686 = _____

_____

d. 6 057 198 000 = _____

_____

8. Write the following numbers in standard form. *Reminder: You may have to add a 0 as a place holder in some cases.*

Ex. 7000 + 40 + 2 = ***7042***

a. 50 000 000 + 20 000 + 700 + 1= _____

b. 60 000 + 8000 + 400 + 50 + 9 = _____

c. 400 000 + 10 000 + 60 + 8 = _____

d. 3 000 000 000 + 200 000 000 + 5 000 000 + 70 + 3 = _____

_____

9. Rearrange the following number sets to make the smallest and the largest possible numbers.

	Number Set	Smallest Possible Number	Largest Possible Number
Ex.	2 8 1 7 8 3	***123 788***	***887 321***
a.	9 1 4 4 1 2		
b.	7 8 2 4		
c.	2 9 3 5 1 8		
d.	5 4 5 4 3		
e.	9 2 1 8 4 6 5 3 7		

10. Find the mystery numbers.

a. The mystery number has...

a 4 in the ten thousands place.
a 9 in the ten millions
a 5 in the hundred thousands place
a 3 in the tens place
a 2 in the ones place

a 7 in the millions
a 0 in the hundreds place
a 6 in the thousands place
What is the mystery number?

___ ___ ___ ___ ___ ___ ___ ___

b. The mystery number has...

a 4 in the ones place
a 1 in the hundreds place
an 8 in the hundred thousands place
a 9 in the tens place
a 5 in the thousands place
a 6 in the ten thousands place

What is the mystery number?

___ ___ ___ ___ ___ ___

c. The mystery number has...

a 6 in the millions place
a 1 in the ten millions place
a 9 in the ten thousands place
a 0 in the thousands place
an 8 in the hundred thousands place
a 7 in the hundred millions place
a 0 in the ones place
a 5 in the hundreds place
a 2 in the tens place

What is the mystery number?

___ ___ ___ ___ ___ ___ ___ ___ ___

1.2 Place Value: Decimals

1. Write the number 15.23 into the place value chart below.

Units			.	Decimals		
Hundreds	Tens	Ones		Tenths	Hundredths	Thousandths

2. Write the place value of the underlined digit using words.

Ex. 80.85<u>**6**</u> Place Value = thousandths Value = 0.006

a. 1.6<u>**8**</u> Place Value = _____ Value = _____

b. 0.87<u>**9**</u> Place Value = _____ Value = _____

c. 31.0<u>**2**</u>0 Place Value = _____ Value = _____

d. 1492.<u>**6**</u> Place Value = _____ Value = _____

e. 0.<u>**0**</u>87 Place Value = _____ Value = _____

f. 62.75<u>**4**</u> Place Value = _____ Value = _____

3. Order the following numbers from smallest to largest

a) 8.28 ; 8.600 ; 8.68 ; 8.831

_____

b) 7.424 ; 7.258 ; 7.893 ; 7.46

_____

c) 8.214 ; 8.61 ; 8.62 ; 8.98

_____

d) 7.65 ; 7.587 ; 7.69 ; 7.656

_____

4. Match the number to its correct standard word form.

____	7.25	a. seven hundredths
____	7.52	b. seven and twenty-five thousandths
____	0.07	c. seven and twenty-five hundredths
____	0.007	d. seven hundred seven
____	7.025	e. seventy and two hundred five thousandths
____	0.707	f. seven thousandths
____	707.0	g. seven hundred seven thousandths
____	70.205	h. seven and fifty-two hundredths

5. Write out the following numbers in standard word form. This is the same as how you would say the numbers out loud. *Reminder: In place of the decimal, write the word "and".*

Ex. 6.792 = ***six and seven hundred ninety two thousandths***

a. 4.52 = _____

b. 72.041 = _____

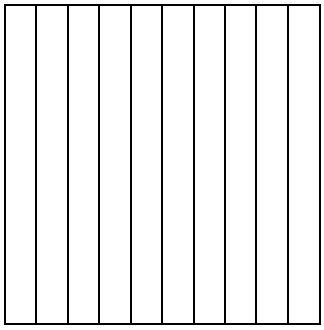
c. 0.83 = _____

d. 50.6 = _____

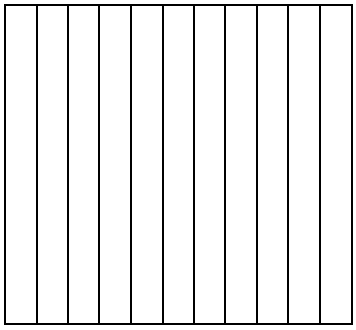
e. 0.735 = _____

6. Fill in the grids to represent the given decimal.

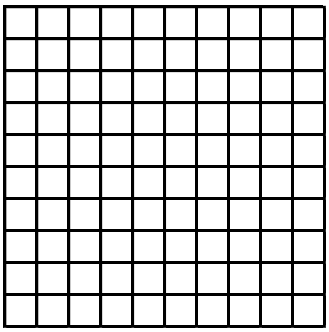
a. 0.6



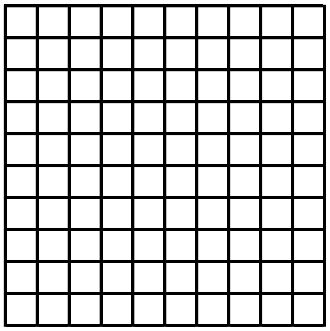
b. 0.2



c. 0.32



d. 0.6



7. Write the following numbers in expanded form. *Reminder: Start with the biggest number.*

Ex. 36.582 = ***30 + 6 + 0.5 + 0.08 + 0.002***

a. 1.4 = _____

b. 7.964 = _____

c. 0.73 = _____

d. 329.44 = _____

e. 904.003 = _____

f. 16.802 = _____

8. Write the following numbers in standard form. *Reminder: You may have to add a 0 as a place holder in some cases.*

Ex. 6 + 0.04 + 0.001 = **6.041**

a. 3 + 0.2 + 0.07 + 0.009 = _____

b. 0.2 + 0.01 + 0.003 = _____

c. 50 + 8 + 0.09 + 0.006 = _____

d. 70 + 0.1 + 0.04 + 0.009 = _____

e. 800 + 0.9 + 0.006 = _____

9. Arrange the following numbers from largest to smallest.

a. 0.12, 1.3, 0.04 _____

b. 1.9, 1.09, 0.1 _____

c. 0.08, 0.009, 0.5 _____

d. 0.64, 0.62, 0.71 _____

10. The top six finishers of the Men's 5000m Speed Skating race from the 2018 Winter Olympics are shown below. If **the lowest score wins**, which countries were awarded gold (1st place), silver (2nd place), and bronze (3rd place)?

Athlete	**Nation**	**Time (min:sec.millisec)**
Bloeman, Ted-Jan	Canada	6:11.616
Kramer, Sven	Netherlands	6:09.760
Lee, Sueng Hoon	Korea	6:14.150
Micheal, Peter	New Zealand	6:14.070
Pederson, Sverre Lunde	Sweden	6:11.618
Swings, Bart	Belgium	6:14.570

a. Gold: _____

b. Silver: _____

c. Bronze: _____