

## Place Value Study Guide

### 1. Decimals (Student Booklet p. 2-11)

- a. Tenths  $\rightarrow$  0.6 (zero and six tenths)
- b. Hundredths  $\rightarrow$  0.06 (zero and six hundredths)
- c. Equivalent Decimals:
  - i.  $0.6 = 0.60$  or  $0.90 = 0.9$
  - ii. 0.6 is not equivalent with 0.06
- d. Value  $\rightarrow$  Money values are written with a dollar sign and a decimal
  - i. 70 cents  $\rightarrow$  \$0.70

### 2. Place Value (Student Booklet p.12-14)

- a. Standard Form: 389 248.73
- b. Expanded Form:  $300\ 000 + 80\ 000 + 9\ 000 + 200 + 40 + 8 + 0.7 + 0.03$
- c. Written Form (write it like you say it): three hundred eighty-nine thousand two hundred forty-eight and seventy-three hundredths
- d. Practice representing numbers in these ways by rolling dice or using a deck of cards

### 3. Comparing Numbers (Student Booklet p.15-23)

- a. Greater than ( $>$ ), Less Than ( $<$ ), or equal ( $=$ )
  - i.  $0.91 > 0.62$     $0.62 < 0.91$     $0.91 = 0.91$
- b. Ordering Numbers
  - i. Greatest to least: 760 000, 706 000, 700 600, 700 060, 700 006
  - ii. Least to Greatest: 0.01, 0.13, 1.37, 2.54
  - iii. Decimals on a Number Line

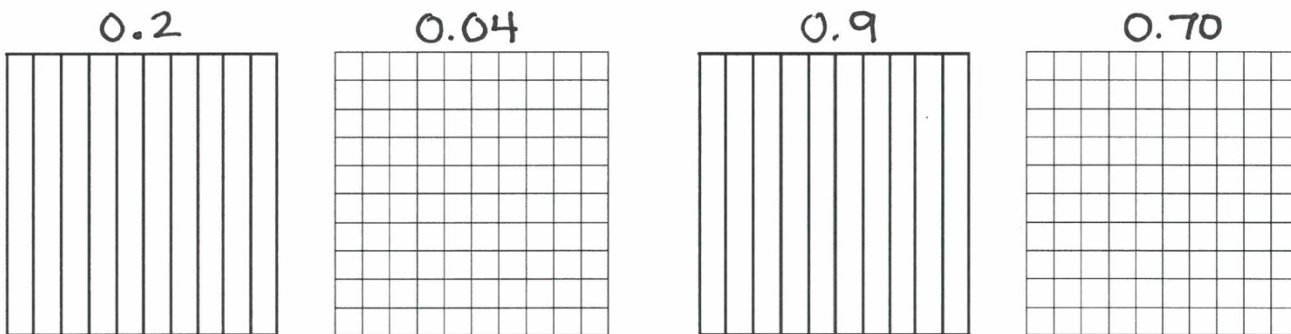
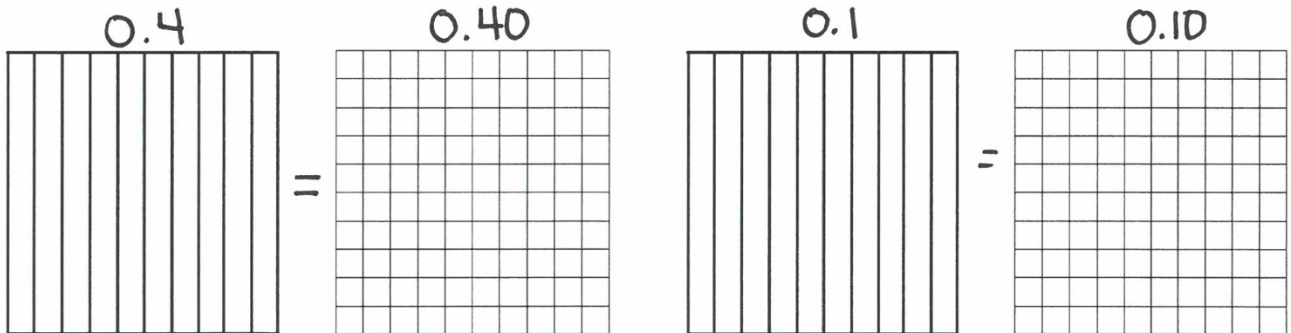
### 4. Rounding (Student Booklet p. 24-27)

- a. Round to the nearest whole number (rounding to the ones place value)
  - i.  $3\ 578.5 \rightarrow 3\ 579$
  - ii.  $3\ 578.2 \rightarrow 3\ 578$
- b. Round to the nearest tenth
  - i.  $5.47 \rightarrow 5.5$
  - ii.  $5.41 \rightarrow 5.4$

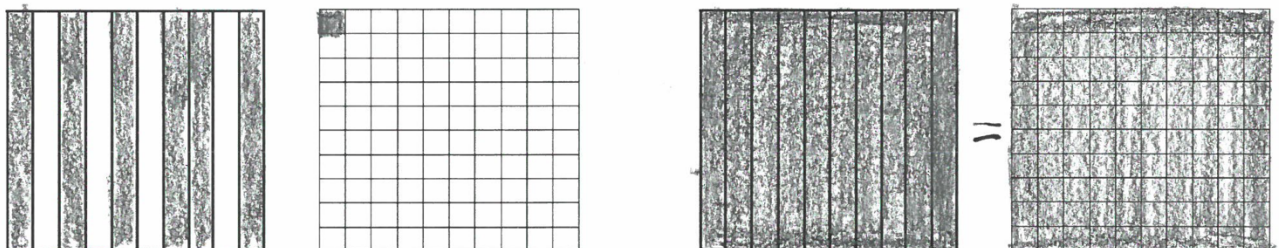
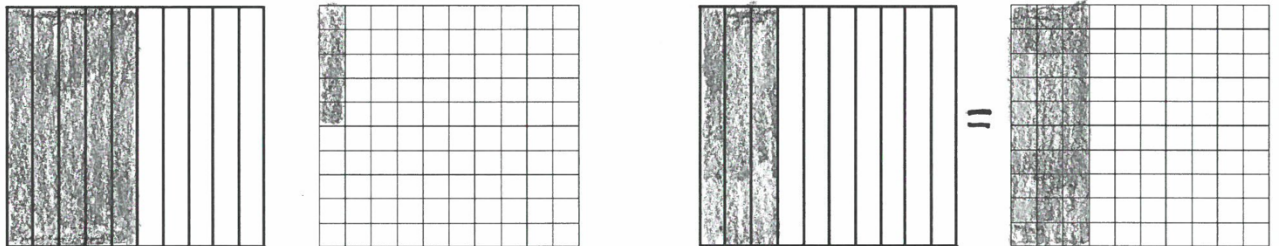
See practice questions below.

## Place Value Practice Questions

1. Color the tenths and hundredths grids to represent the decimal.



2. Write the decimal that represents the shaded part in the grids.



3. Compare numbers by using Greater than (>), Less Than (<), or equal (=)

0.86		1.86
37.9		37.72
938 291		937 291
428.02		428.20
6 328		6 348
499.6		499.60

4. Order the numbers from least to greatest.

7.3	8.03	6.53	6.33
-----	------	------	------

\_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

307 560	7650	70 500	2055
---------	------	--------	------

\_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

5. Order the numbers from greatest to least.

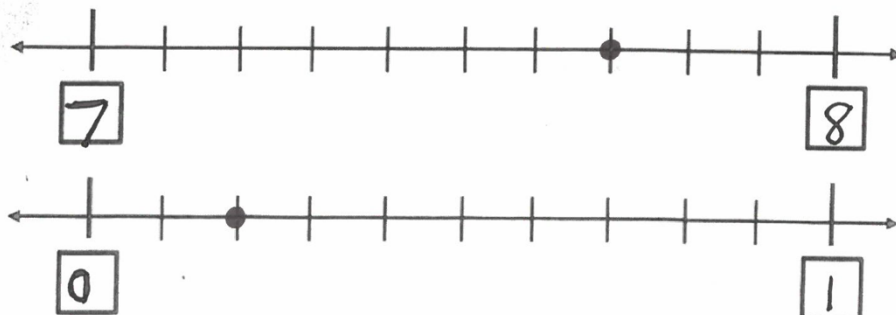
6.71	6.18	6.01	6.81
------	------	------	------

\_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

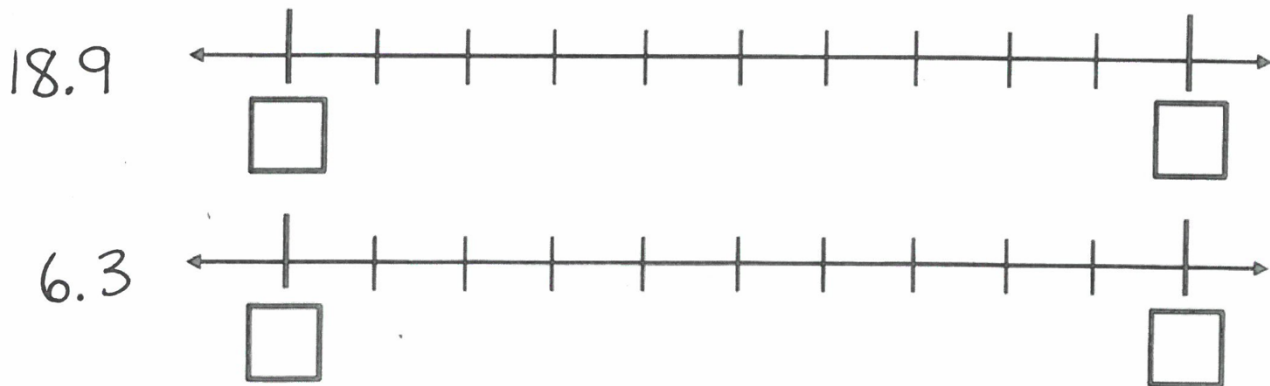
461 850	146 680	146 285	146 085
---------	---------	---------	---------

\_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_ , \_\_\_\_\_

6. Write the decimal number that matches the point on the number line.



7. Draw a mark on the number line to represent the decimal. What whole numbers does this decimal number fall between?



8. Round to the nearest whole number.

5 937.2	→	
84.9	→	
487.07	→	
28.73	→	
6.55	→	

9. Round to the nearest tenth.






5 937.24	→	
487.07	→	
94 527.83	→	
28.73	→	
6.55	→	

8

7

6

10. Write the value of the coins using dollar signs and decimals.

11.

Name: \_\_\_\_\_

Standard Form	Expanded Form	Written Form
246 985.1		
		three hundred seventy-two and sixty-four hundredths
	$5\ 000 + 300 + 20 + 9$ $+ 0.5 + 0.03$	
93.2		
		seven hundred ninety-five thousand four hundred eighty and six tenths