About this Sample
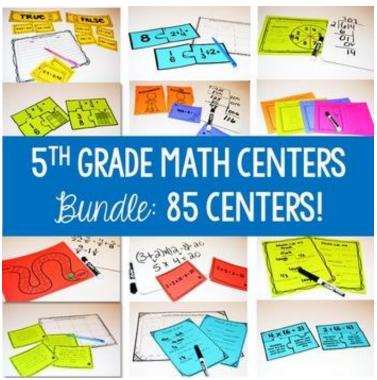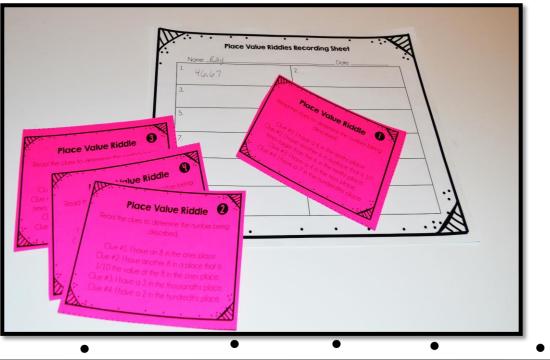
This sample contains two complete math centers from my 5th Grade Math Center Bundle. The bundle contains over 80 centers, 1-3 centers for each 5th Grade math standard (based on common core standards). Click here or on the image below to see the full resource.

Place Value
Riddles

Teacher Notes: The students read 4-5 clues about a number. They use the clues to write the number being described. This includes clues referring to adjacent place value. (Example: The tens place is 1/10 the value of the hundreds place.)

Place Value
Riddles

Directions: Read the clues on each card to determine the number being described.

Place Value Riddle ①

Read the clues to determine the number being described.

Clue #1: I have a 6 in the tenths place.
Clue #2: I have another 6 in a place that is 10 times larger than the 6 in the tenths place.
Clue #3: I have a 4 in the tens place.
Clue #4: I have a 7 in the hundredths place.

Place Value Riddle ②

Read the clues to determine the number being described.

Clue #1: I have an 8 in the ones place.
Clue #2: I have another 8 in a place that is 1/10 the value of the 8 in the ones place.
Clue #3: I have a 3 in the thousandths place.
Clue #4: I have a 2 in the hundredths place.

Place Value Riddle ③

Read the clues to determine the number being described.

Clue #1: I have a 5 in the hundreds place.
Clue #2: I have another 5 in a place that is 10 times larger than the 5 in the hundreds place.
Clue #3: I have a 3 in the tenths place.
Clue #4: I have a 4 in the thousandths place.

Place Value Riddle ④

Read the clues to determine the number being described.

Clue #1: I have a 3 in the tenths place.
Clue #2: I have a 7 in the hundreds place.
Clue #3: I have another 7 that is 1/10 the value of the 7 in the hundreds place
Clue #4: I have a 9 in the ones place.

Place Value Riddle ❺

Read the clues to determine the number being described.

Clue #1: I have a 9 in the tenths place.
Clue #2: I have a 3 in the ones place.
Clue #3: I have another 3 in a place that is 10 times larger than the 3 in the ones place.
Clue #4: I have a 7 in the hundredths place.

Place Value Riddle ❻

Read the clues to determine the number being described.

Clue #1: I have a 7 in the tenths place.
Clue #2: I have another 7 in a place that is 1/10 the value of the 7 in the tenths place.
Clue #3: I have a 3 in the ones place.
Clue #4: I have an 8 in the thousands place.

Place Value Riddle ❼

Read the clues to determine the number being described.

Clue #1: I have an 8 in the thousands place.
Clue #2: I have another 8 in a place that is 10 times larger than the 8 in the thousands place.
Clue #3: I have a 5 in the tenths place.
Clue #4: I have a 3 in the tens place.
Clue #5: I have a 9 in the ones place.

Place Value Riddle ❽

Read the clues to determine the number being described.

Clue #1: I have a 9 in the hundredths place.
Clue #2: I have a 4 in the ones place.
Clue #3: I have another 4 that is 1/10 the value of the 4 in the ones place
Clue #4: I have a 7 in the hundreds place.
Clue #5: I have a 1 in the thousands place.

Place Value Riddle 9

Read the clues to determine the number being described.

Clue #1: I have a 1 in the ones place.
Clue #2: I have a 2 in the hundredths place.
Clue #3: I have another 2 in a place that is 10 times larger than the 2 in the hundredths place.
Clue #4: I have a 5 in the hundred thousands place.

Place Value Riddle 10

Read the clues to determine the number being described.

Clue #1: I have a 9 in the millions place.
Clue #2: I have another 9 in a place that is 1/10 the value of the 9 in the millions place.
Clue #3: I have a 3 in the thousands place.
Clue #4: I have a 4 in the hundredths place.

Place Value Riddle 11

Read the clues to determine the number being described.

Clue #1: I have a 6 in the ones place.
Clue #2: I have another 6 in a place that is 10 times larger than the 6 in the ones place.
Clue #3: I have a 4 in the tenths place.
Clue #4: I have a 7 in the hundredths place.
Clue #5: I have a 9 in the thousandths place.

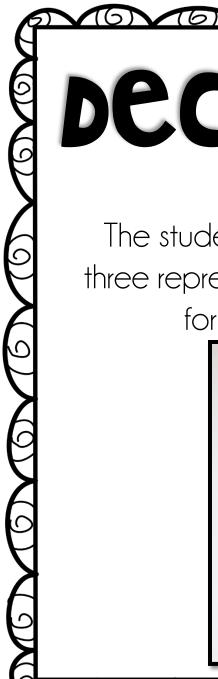## Place Value Riddle 12

Read the clues to determine the number being described.

Clue #1: I have a 8 in the ten thousands place.
Clue #2: I have a 7 in the hundredths place.
Clue #3: I have another 7 that is 1/10 the value of the 7 in the hundredths place
Clue #4: I have a 6 in the hundreds place.
Clue #5: I have a 5 in the thousands place.

Place Value Riddles Recording Sheet

Name: _____ Date: _____

1.	2.
3.	4.
5.	6.
7.	8.
9.	10.
11.	12.

Place Value Riddles Answer Key

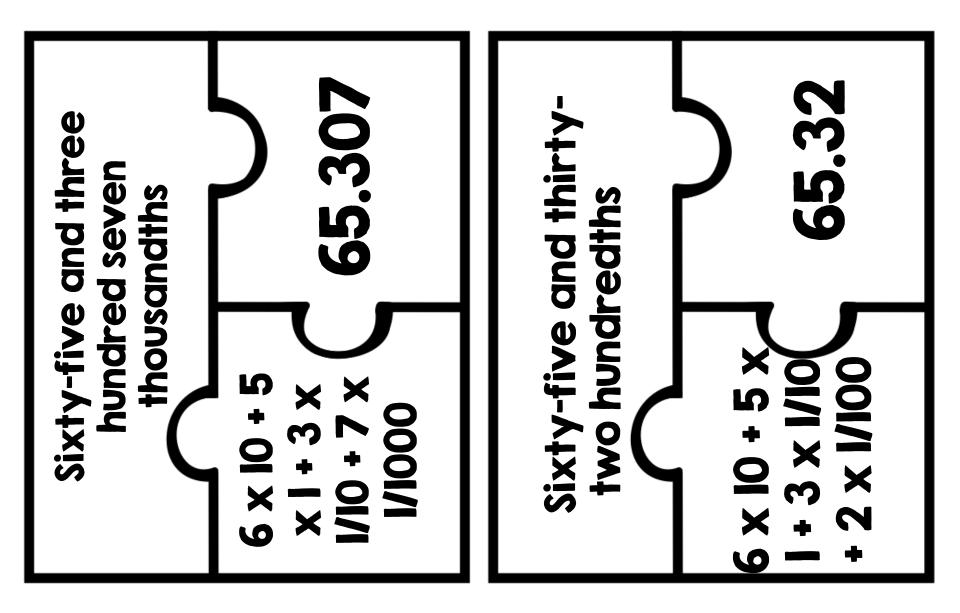|	
1. 46.67	2. 8.823
3. 5,500.34	4. 779.3
5. 33.97	6. 8,003.77
7. 88,039.5	8. 1,704.49
9. 500,001.22	10. 9,903,000.04
11. 66.479	12. 85,600.077

Decimal Puzzles

Teacher Notes:

The students will match the three puzzle pieces to find the three representations of the same decimal: base ten numeral form, number name form, and expanded form.

DECiMAL PUZZLES

Directions: Match the pieces of the puzzle by finding the three representations of the same decimal.

Puzzle 1

Sixty-five and three hundred seven thousandths

65.307

6 x 10 + 5 x 1 + 3 x 1/10 + 7 x 1/1000

Puzzle 2

Sixty-five and thirty-two hundredths

65.32

6 x 10 + 5 x 1 + 3 x 1/10 + 2 x 1/100

Sixty-six and seventy-four hundredths

66.74

6 x 10 +
6 x 1 + 7
x 1/10 +
4 x 1/100

Fifty-seven and two hundred forty-one thousandths

57.241

5 x 10 + 7x
1 + 2 x 1/10
+ 4 x 1/100
+ 1 x 1/1000

Puzzle 1

One hundred one and fifty-six thousandths

101.056

1 x 100 + 1 x 1 + 5 x 1/100 + 6 x 1/1000

Puzzle 2

One hundred one and fifty-six hundredths

101.56

1 x 100 + 1 x 1 + 5 x 1/10 + 6 x 1/100

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Three hundred twenty-one and nine hundred eighty-six thousandths

321.986

3 x 100
+ 2 x 10 + 1 x 1
+ 9 x 1/10
+ 8 x 1/100
+ 6 x 1/1000

Thirty-two and six thousandths

32.006

3 x 10
+ 2 x 1 +
6 x 1/1000

Fifteen and nine hundred eighty-six thousandths

15.986

1 x 10 +
5 x 1 +
9 x 1/10 +
8 x 1/100 +
6 x 1/1000

Fifteen and six thousandths

15.006

1 x 10 +
5 x 1 +
6 x 1/1000

Two thousand, one hundred six and eight tenths

2,106.8

2 x 1,000 + 1 x 100 + 6 x 1 + 8 x 1/10

Two thousand, one hundred sixty and eight thousandths

2,160.008

2 x 1,000 + 1 x 100 + 6 x 10 + 8 x 1/1000

Nine thousandths

0.009

9 x 1/1000

Nine tenths

0.9

9 x 1/10

One and forty-nine hundredths

1.49

1 x 1 +
4 x 1/10 +
9 x 1/100

One and three hundred twenty-two thousandths

1.322

1 x 1 +
3 x 1/10 +
2 x 1/100 +
2 x 1/1000

Decimal Puzzles Recording Sheet

Name: _____ Date: _____

Decimal Puzzles Answer Key 1 of 2

Name: _____ Date: _____

65.307	Sixty-five and three hundred seven thousandths	6 x 10 + 5 x 1 + 3 x 1/10 + 7 x 1/1000
65.32	Sixty-five and thirty-two hundredths	6 x 10 + 5 x 1 + 3 x 1/10 + 2 x 1/100
66.74	Sixty-six and seventy-four hundredths	6 x 10 + 6 x 1 + 7 x 1/10 + 4 x 1/100
57.241	Fifty-seven and two hundred forty-one thousandths	5 x 10 + 7 x 1 + 2 x 1/10 + 4 x 1/100 + 1 x 1/1000
101.056	One hundred one and fifty-six thousandths	1 x 100 + 1 x 1 + 5 x 1/100 + 6 x 1/1000
101.56	One hundred one and fifty six hundredths	1 x 100 + 1 x 1 + 5 x 1/10 + 6 x 1/100
321.986	Three hundred twenty-one and nine hundred eighty-six thousandths	3 x 100 + 2 x 10 + 1 x 1 + 9 x 1/10 + 8 x 1/100 + 6 x 1/1000
32.006	Thirty-two and six thousandths	3 x 10 + 2 x 1 + 6 x 1/1000

Decimal Puzzles Answer Key 2 of 2

Name: _____ Date: _____

15.986	Fifteen and nine hundred eighty-six thousandths	$1 \times 10 + 5 \times 1 + 9 \times 1/10 + 8 \times 1/100 + 6 \times 1/1000$
15.006	Fifteen and six thousandths	$1 \times 10 + 5 \times 1 + 6 \times 1/1000$
2,106.8	Two thousand, one hundred six and eight tenths	$2 \times 1,000 + 1 \times 100 + 6 \times 1 + 8 \times 1/10$
2,160.008	Two thousand, one hundred sixty and eight thousandths	$2 \times 1,000 + 1 \times 100 + 6 \times 10 + 8 \times 1/1000$
0.009	Nine thousandths	$9 \times 1/1000$
0.9	Nine tenths	$9 \times 1/10$
1.49	One and forty-nine hundredths	$1 \times 1 + 4 \times 1/10 + 9 \times 1/100$
1.322	One and three hundred twenty-two thousandths	$1 \times 1 + 3 \times 1/10 + 2 \times 1/100 + 2 \times 1/1000$

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