

Summer Middle School Pre-Algebra Assignment (7th Grade)

- Assignment 1 will review the concept of **Rounding Decimals**. Read the ***Rounding Decimals Intro*** and ***Rounding Cheat Sheet***. Pay close attention to the examples.
- After reviewing the ***Rounding Decimals Intro and Rounding Cheat Sheet***, complete #1-38 of the **Rounding Decimal Intro Handout**. Answers to #1-38 are to be written on the ***Rounding Decimal Intro Answer Sheet***. You may refer to the ***Rounding Cheat Sheet***.
- Assignment 2: Complete both **Rounding Mazes**. Write your answers in the boxes in the mazes and show your path through each maze.
- Assignment 3: Complete the ***Round to the Nearest Hundredth Mystery Picture***. Connect answers in the order they were solved. Use a ruler to make a sharp picture and color the mystery picture neatly.

Please print all pages and bring the completed assignments to turn in on the first day of class, August 13.

Rounding Decimals **Intro**

When a number has more decimal places than you want or need, you can **round** it. Use the rules below to round a number to any place value.

Rounding Decimals

- Look at the digit to the right of the place being rounded.
- If the digit is 4 or less, the digit being rounded remains the same.
 - If the digit is 5 or greater, the digit being rounded is rounded up.

EXAMPLES Round Decimals

1 Round 3.92 to the nearest tenth.

tenths place
↓
3.92 Look at the digit to the right of the tenths place.
Since 2 is less than 5, the digit in the tenths place stays the same.
3.92 rounded to the nearest tenth is 3.9.

2 Round 46.297 to the nearest hundredth.

hundredths place
↓
46.297 Look at the digit to the right of the hundredths place.
Since 7 is greater than 5, round 9 up.
46.297 rounded to the nearest hundredth is 46.30.

Exercises

Round each number to the given place value.

- | | | |
|-------------------------|----------------------|---------------------|
| 1. 0.315; tenth | 2. 0.2456; hundredth | 3. 17.499; tenth |
| 4. 43.219; hundredth | 5. 15.522; tenth | 6. 9.6; ones |
| 7. 7.0375; thousandth | 8. 16.399; tenth | 9. 6.95; tenth |
| 10. 99.1283; thousandth | 11. 1,000.37; tenth | 12. 750.523; ones |
| 13. 0.445; hundredth | 14. 490.299; ones | 15. 999.99; tenth |
| 16. 476.835; hundredth | 17. 682.596; tenth | 18. 1,000.562; ones |

Round each number to the underlined place-value position.

- | | | |
|---------------------|----------------------|----------------------|
| 19. 0. <u>7</u> 89 | 20. 0. <u>9</u> 6 | 21. 1. <u>5</u> 7246 |
| 22. <u>2</u> 3.48 | 23. 1. <u>7</u> 04 | 24. 0. <u>1</u> 63 |
| 25. 15. <u>4</u> 51 | 26. 4.52 <u>9</u> 88 | 27. 0. <u>7</u> 87 |
| 28. <u>3</u> 8.56 | 29. <u>5</u> 9.61 | 30. <u>0</u> .555 |
| 31. 0. <u>5</u> 55 | 32. 0. <u>5</u> 55 | 33. 10. <u>9</u> 29 |
| 34. 10. <u>9</u> 29 | 35. <u>4</u> 25.599 | 36. 0.92 <u>9</u> 29 |

37. **HORSES** A trainer recorded a racehorse running at 47.54 miles per hour. Round this speed to the nearest mile per hour.
38. **POPULATION** In 2000, the population of Texas was 20.85 million. Round to the nearest million.

Rounding Cheat Sheet

Decimal Places	
Whole Number	15
Tenths Place	1. <u>2</u>
Hundredths Place	2.3 <u>4</u>
Thousandths Place	2.34 <u>4</u>

Rounding	
Look to the number directly after the place you need to round to. Ex: Round the following numbers to the nearest tenths place .	
<p style="text-align: center;"><5</p> <p style="text-align: center;">4.3<u>2</u></p> <p style="text-align: center;">Rounds down to...</p> <p style="text-align: center;">4.3</p>	<p style="text-align: center;">≥ 5</p> <p style="text-align: center;">6.3<u>5</u></p> <p style="text-align: center;">Rounds up to...</p> <p style="text-align: center;">6.4</p>

Name _____

Period _____

Rounding Decimals into Answer Sheet

2. _____

36. _____

4. _____

38. _____

6. _____

8. _____

10. _____

12. _____

14. _____

16. _____

18. _____

20. _____

22. _____

24. _____

26. _____

28. _____

30. _____

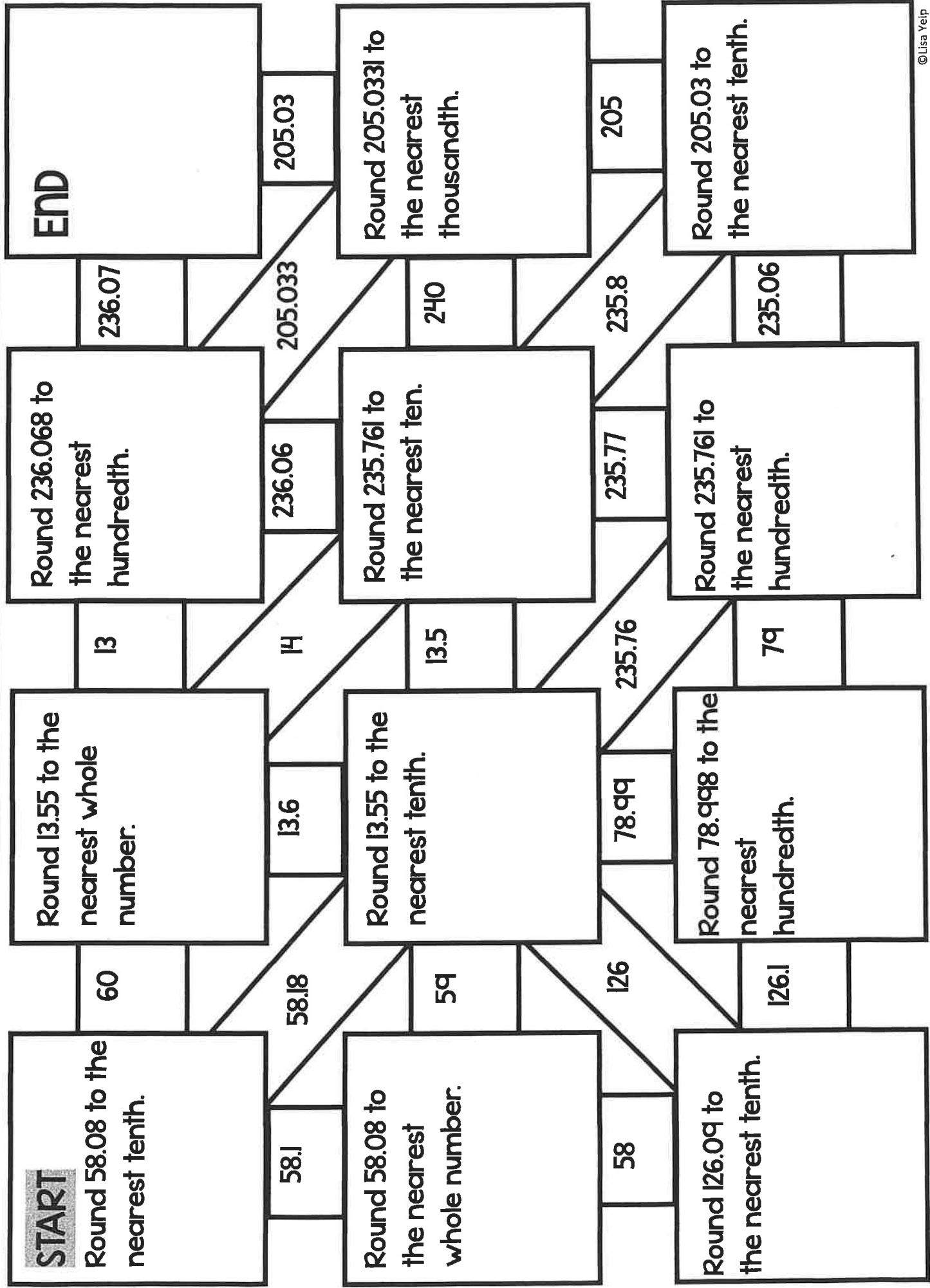
31. _____

32. _____

34. _____

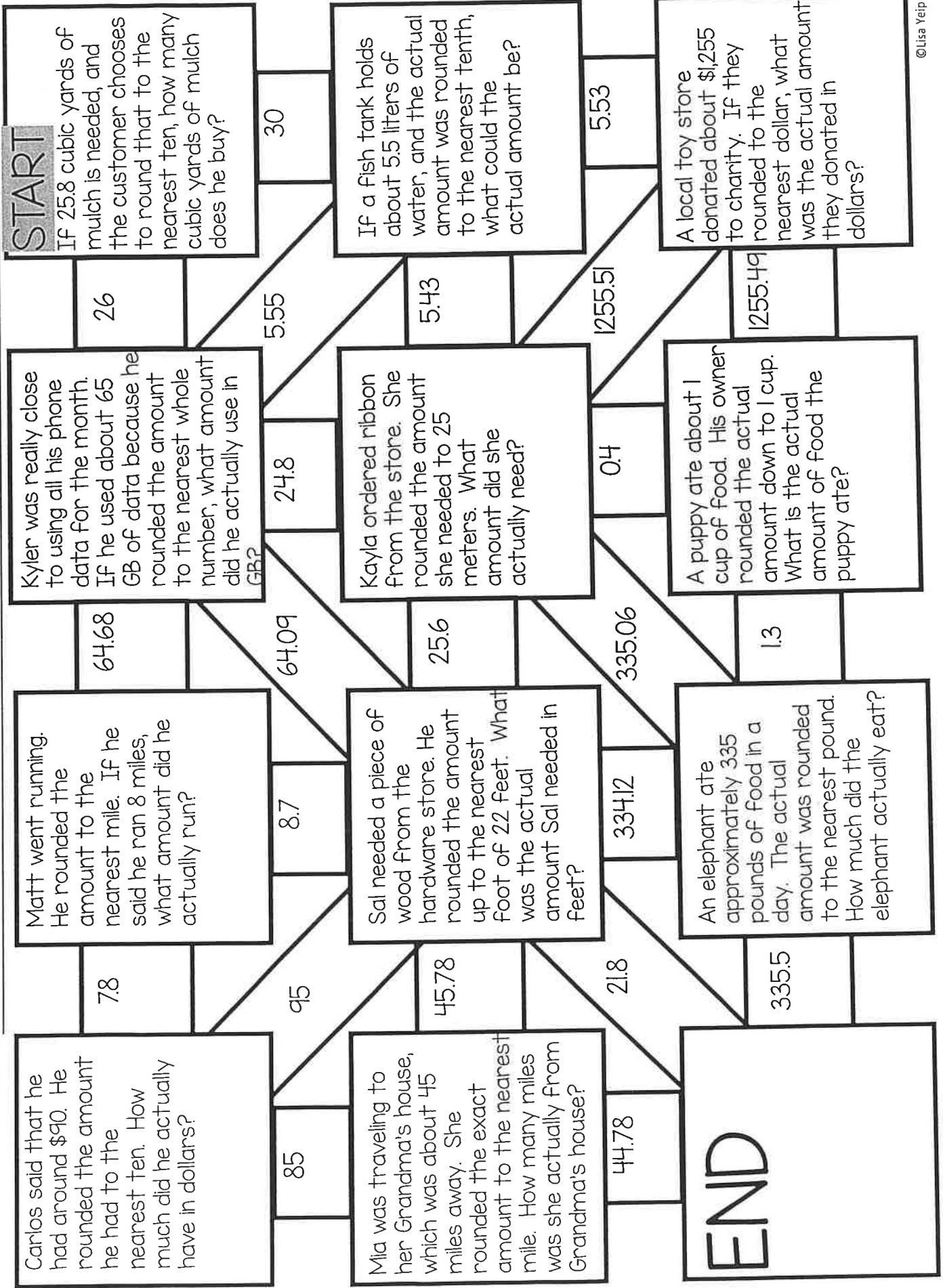
Rounding Maze

Name _____



Rounding Maze

Name _____



ROUND TO THE NEAREST HUNDRETH

- 0 • 0.01 • 0.02 • 0.03 • 0.04 • 0.05 • 0.06 • 0.07 • 0.08 • 0.09 • 0.10 • 0.11 • 0.12 • 0.13 • 0.14
- 0.15 • 0.16 • 0.17 • 0.18 • 0.19 • 0.20 • 0.21 • 0.22 • 0.23 • 0.24 • 0.25 • 0.26 • 0.27 • 0.28 • 0.29
- 0.30 • 0.31 • 0.32 • 0.33 • 0.34 • 0.35 • 0.36 • 0.37 • 0.38 • 0.39 • 0.40 • 0.41 • 0.42 • 0.43 • 0.44
- 0.45 • 0.46 • 0.47 • 0.48 • 0.49 • 0.50 • 0.51 • 0.52 • 0.53 • 0.54 • 0.55 • 0.56 • 0.57 • 0.58 • 0.59
- 0.60 • 0.61 • 0.62 • 0.63 • 0.64 • 0.65 • 0.66 • 0.67 • 0.68 • 0.69 • 0.70 • 0.71 • 0.72 • 0.73 • 0.74
- 0.75 • 0.76 • 0.77 • 0.78 • 0.79 • 0.80 • 0.81 • 0.82 • 0.83 • 0.84 • 0.85 • 0.86 • 0.87 • 0.88 • 0.89
- 0.90 • 0.91 • 0.92 • 0.93 • 0.94 • 0.95 • 0.96 • 0.97 • 0.98 • 0.99 • 1.00 • 1.01 • 1.02 • 1.03 • 1.04
- 1.05 • 1.06 • 1.07 • 1.08 • 1.09 • 1.10 • 1.11 • 1.12 • 1.13 • 1.14 • 1.15 • 1.16 • 1.17 • 1.18 • 1.19
- 1.20 • 1.21 • 1.22 • 1.23 • 1.24 • 1.25 • 1.26 • 1.27 • 1.28 • 1.29 • 1.30 • 1.31 • 1.32 • 1.33 • 1.34
- 1.35 • 1.36 • 1.37 • 1.38 • 1.39 • 1.40 • 1.41 • 1.42 • 1.43 • 1.44 • 1.45 • 1.46 • 1.47 • 1.48 • 1.49
- 1.50 • 1.51 • 1.52 • 1.53 • 1.54 • 1.55 • 1.56 • 1.57 • 1.58 • 1.59 • 1.60 • 1.61 • 1.62 • 1.63 • 1.64
- 1.65 • 1.66 • 1.67 • 1.68 • 1.69 • 1.70 • 1.71 • 1.72 • 1.73 • 1.74 • 1.75 • 1.76 • 1.77 • 1.78 • 1.79
- 1.80 • 1.81 • 1.82 • 1.83 • 1.84 • 1.85 • 1.86 • 1.87 • 1.88 • 1.89 • 1.90 • 1.91 • 1.92 • 1.93 • 1.94
- 1.95 • 1.96 • 1.97 • 1.98 • 1.99 • 2.00 • 2.01 • 2.02 • 2.03 • 2.04 • 2.05 • 2.06 • 2.07 • 2.08 • 2.09
- 2.10 • 2.11 • 2.12 • 2.13 • 2.14 • 2.15 • 2.16 • 2.17 • 2.18 • 2.19 • 2.20 • 2.21 • 2.22 • 2.23 • 2.24
- 2.25 • 2.26 • 2.27 • 2.28 • 2.29 • 2.30 • 2.31 • 2.32 • 2.33 • 2.34 • 2.35 • 2.36 • 2.37 • 2.38 • 2.39

Directions: Round each number to the Nearest Hundredth from Start to Stop. Find and connect your answers in the order they were solved, reading the answers vertically.

Start at 1.81	Stop at 1.67	Start at 1.76	1.336 =	0.641 =	0.854 =
1.662 =		1.769 =	1.199 =	0.627 =	0.859 =
1.516 =	Start at 1.84	1.922 =	Stop at 1.35	Stop at 1.06	Stop at 1.01
1.534 =	1.899 =	1.914 =			
1.687 =	1.746 =	Stop at 1.76	Start at 1.34	Start at 1.01	Start at 1.85
1.837 =	1.608 =		0.285 =	1.018 =	0.645 =
1.982 =	1.615 =	Start at 1.93	0.193 =	0.874 =	0.667 =
1.971 =	1.777 =	1.938 =	0.489 =	0.879 =	Stop at 1.87
Stop at 1.81	1.932 =	1.487 =	0.467 =	0.732 =	
	2.065 =	1.346 =	1.052 =	0.721 =	
Start at 1.67	2.064 =	1.798 =	Stop at 1.20	0.568 =	
1.678 =	Stop at 1.90	Stop at 1.81		0.562 =	
1.834 =			Start at 1.06	0.708 =	
1.819 =		Start at 1.49	1.086 =	0.702 =	