Rounding Rules

Example 1: Round 24.032 to the nearest hundredth.

Step 1: Where is the *hundredth* place?

Use your "Place Value" sheet to write down the number: 24.032

Hundred Billion	Ten Billion	Billion	Hundred Million	Ten Million	Million	Hundred Thousand	Ten Thousand	Thousand	Hundred	Tens	Ones	Decimal	Tenth	Hundreth	Thousandths	Ten-Thousandths
												.				
										2	4	.	0	3	2	

Step 2: Find the number in the *hundredth* place.

The number in the hundredth place is 3

Step 3: Underline the 3.

Underline like this. $24.0\underline{3}2$

Step 4: Draw your vertical line.

$24.03|2$

Step 5: Round up or round down?

Is 2 greater than or equal to 5 ? $24.03|2$

2 **is** not greater than or equal to 5, so the 3 doesn't change, and we chop off all the numbers to the right of the vertical line. $24.03|2$

We're done! 24.032 rounded to the nearest hundredth is: 24.03

Rounding Rules

Example 2: Round $31{,}487.26$ to the nearest ten.

Step 1: Where is the *tens* place?

Use your "Place Value" sheet to write down the number: $31{,}487.26$

Hundred Billion	Ten Billion	Billion	Hundred Million	Ten Million	Million	Hundred Thousand	Ten Thousand	Thousand	Hundred	Tens	Ones	Decimal	Tenth	Hundreth	Thousandths	Ten-Thousandths
							3	1	4	8	7	.	2	6		

Step 2: Find the number in the *tens* place.

The number in the tens place is 8

Step 3: Underline the 8.

Underline like this. $31{,}4\underline{8}7.26$

Step 4: Draw your vertical line.

$31{,}48|7.26$

Step 5: Round up or round down?

Is 7 greater than or equal to 5 ? $31{,}48|7.26$

7 **is** greater than or equal to 5, so the 8 changes to a 9, and $31{,}48|7.26$
we chop off all the numbers to the right of the vertical line and replace them with zeros.

We're done! $31{,}487.26$ rounded to the nearest ten is: $31{,}490$