Rounding Whole Numbers

Rounding a number means the process of making a number simpler such that its value remains close to what it was. The result obtained after rounding off a number is less accurate, but easier to use. While rounding a number, we consider the place value of digits in a number.

Rounding Numbers to the Nearest Ten

Rounding numbers to the nearest ten means we need to check the digit to the right of the tens place, that is the ones place. For example, when we round the number 7486 to the nearest ten, it becomes 7490.

Rounding Numbers to the Nearest Hundred

Rounding numbers to the nearest hundred means we need to check the digit to the right of the hundreds place, that is, the tens place. For example, when 7456 is rounded to the nearest hundred, it becomes 7500.

There are some basic rules that need to be followed for rounding numbers.

- We first need to know what our rounding digit is. This digit is the one that will ultimately be affected.

- After this, we need to check the digit to the right of this place which will decide the fate of the rounding digit.

- If the digit to the right is less than 5, we do not change the rounding digit. However, all the digits to the right of the rounding digit are changed to 0.

- If the digit to the right is 5 or more than 5, we increase the rounding digit by 1, and all the digits to the right of the rounding digit are changed to 0.

Rounding Whole Numbers

⇨ **Let us understand with some Examples:**

Example 1: Round 3,426 to the nearest ten.

Solution: Mark the digit in the tens position.

Observe the digit immediately to the right of the tens position. It is 6. Since 6 is greater than 5, we round up by replacing 6 with 0 and adding 1 to the digit in the tens position (the round-off position): 2 + 1 = 3.

Thus, 3,426 rounded to the nearest ten is 3,430.

Example 2: Round 3387 to the nearest hundred.

Solution: Mark the digit in the hundred position.

Observe the digit immediately to the right of the hundred position. It is 8. Since 8 is greater than 5, we round up by replacing 8 and 7 with 0 and adding 1 to the digit in the hundred position (the round-off position): 3 + 1 = 4.

Thus, 3,387 rounded to the nearest hundred is 3,400.