

Math

Common Core State Standards

4th Grade

Place value, rounding, prime & composite numbers, factors & multiples, multiplication & division algorithms, comparing fractions & mixed

PLACE VALUE (4.NBT.1)

A multi-digit number is a number with more than one digit. A digit in one place represents 10 times as much as it represents in the place to its right.

millions			thousands			ones		
hundred millions	ten millions	millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones
8	4	5	6	0	3	1	7	9

EX: 3 thousands = $3 \times (10 \times 10 \times 10) = 3,000$
5 hundred thousands = $5 \times 100,000 = 500,000$

A number is written in **standard form** when digits are used to show the place values.

EX: three hundred twenty-six thousand, one hundred twelve = 326,112

A number is written in **expanded form** when it is shown as the sum of the values of each digit.

EX: 8,597,870 = $8,000,000 + 500,000 + 90,000 + 7,000 + 800 + 70$

You Can Do This!

Bryan has \$35 in his savings account. If Bryan will have one hundred times as much in his account at the end of the year, how much will be in the account?
 $\$35 \times 100 = \$35 \times (10 \times 10) = \$3,500$
At the end of the year, Bryan will have \$3,500 in his account.

COMPARING NUMBERS (4.NBT.2)

You can compare two multi-digit numbers by looking at the values of the digits in each place.

EX: Compare using $<$, $>$, or $=$.
one hundred five one hundred fourteen
 $105 \text{ } \boxed{<} 114$
 $105 \text{ } \boxed{<} 114$

Tip!

In this example, the hundreds digits are the same, so compare the tens digits: $0 < 1$.

ROUNDING NUMBERS (4.NBT.2, 4.NBT.3)

Use rules when you need to round to a certain place value.

EX: Round 56,489 to the nearest ten thousand.

- Find the two values the number can be rounded to based on place value: 50,000 or 60,000.
- Find the halfway point: 55,000.
- Decide if the number is less than or greater than the halfway point: $56,489 > 55,000$.
- If the number you are rounding is less than the halfway point, round down. If the number you are rounding is greater than the halfway point, round up. So, 56,489 rounded to the nearest ten thousand is 60,000.

You Can Do This!

People donated \$73,908 to a charity last year to help rebuild a coral reef. To the nearest thousand, how much money did people donate?
To round 73,908 to the nearest thousand, look at the digit in the hundreds place. It is 9. Round up.
Last year, people donated about \$74,000.

FACTORS & MULTIPLES (4.OA.A)

Factors are parts of a number that multiply together to form a larger number.

EX: Find the factors of 12.
 $1 \times 12 = 12$, $2 \times 6 = 12$, and $3 \times 4 = 12$.
So, 1, 2, 3, 4, 6, and 12 are factors of 12.

Multiples of a number are found when the number is multiplied by a whole number.

EX: Find four multiples of 3.
 $1 \times 3 = 3$, $2 \times 3 = 6$, $3 \times 3 = 9$, and $3 \times 4 = 12$.
So, 3, 6, 9, and 12 are four multiples of 3.

PRIME & COMPOSITE NUMBERS (4.OA.B)

A **prime number** has factors of only 1 and itself.

Numbers that are not prime are **composite numbers**.

EX: Determine if the numbers 27, 19, and 2 are prime or composite.

Number	Factors	Prime or Composite?
27	$1 \times 27 = 27$ $3 \times 9 = 27$	composite
19	$1 \times 19 = 19$	prime
2	$1 \times 2 = 2$	prime

Nys Common Core Math 4th Grade

Yeping Li, Glenda Lappan



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