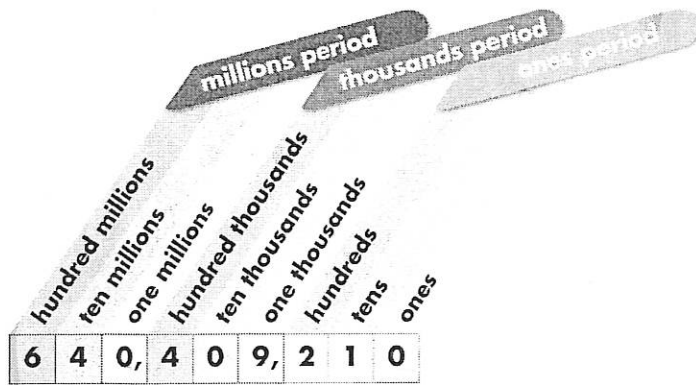


Vocabulary



The **number name** for this number is six hundred forty million, four hundred nine thousand, two hundred ten.

1. **Expanded form** is a way to write a number as the sum of each digit multiplied by its place value. Fill in the blanks to write the number in expanded form.

$$6 \times \underline{100,000,000} + 4 \times \underline{40,000,000} + 4 \times \underline{400,000} + 9 \times \underline{4,000} + 2 \times \underline{100} + 1 \times \underline{10}$$

2. Use your work in Exercise 1 to write the number in expanded form using powers of 10 with exponents.

$$6 \times 10^{\underline{8}} + 4 \times 10^{\underline{7}} + 4 \times 10^{\underline{5}} + 9 \times 10^{\underline{3}} + 2 \times 10^{\underline{2}} + 1 \times 10^{\underline{1}}$$

3. Write the **value** of the underlined digit in 42,980,005. 900,000

4. What is the relationship between the value of the two 5s in 1,550,304?

The first 5 is in the hundred thousands place, so the value is 500,000.

The second 5 is in the ten thousands place, so the value is 50,000.

How many times as great as the value of the first 5 is the value of the second 5?

10 times greater

On the Back!

5. Write 4,007,603 in expanded form using powers of 10 with exponents.

$$(4 \times 10^6) + (7 \times 10^3) + (6 \times 10^2) + (3 \times 10^0) \leftarrow \text{same as } (3 \times 1)$$