Name _____

Video Practice Tools Games

Another Look!

A place-value chart can help you write larger numbers.
What are the various ways to write 92,888,100?

millions thousands ones

hundred millions | ten millions | millions | hundred thousands | ten thousands | thousands | hundreds | tens | ones

| 9 | 2, | 8 | 8 | 8, | 1 | 0 | 0 |

$\times 10 \times \frac{1}{10}$

The value of the first 8 is
$8 \times 100{,}000 = 800{,}000$,
and the value of the second 8 is
$8 \times 10{,}000 = 80{,}000$.
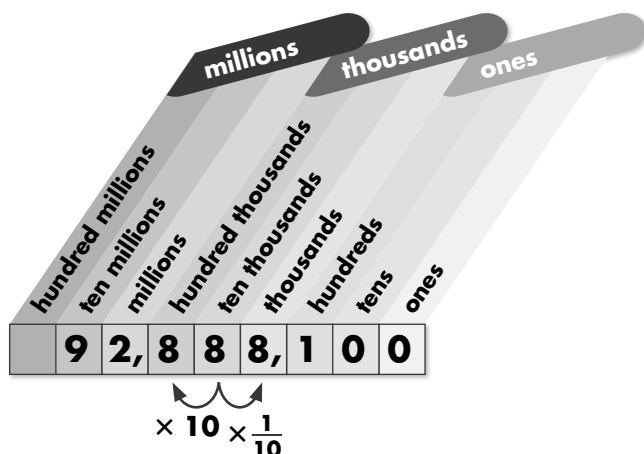
Expanded form: $(9 \times 10^7) + (2 \times 10^6) + (8 \times 10^5) + (8 \times 10^4) + (8 \times 10^3) + (1 \times 10^2)$

Standard form: 92,888,100

Number name: ninety-two million, eight hundred eighty-eight thousand, one hundred

1. Write 720,080 in expanded form with exponents.
$(7 \times 10^5) +$ **$(2 \times 10^4) + (8 \times 10^1)$**

2. Write the number name for 43,080,700.
Forty-three million, eighty thousand, seven hundred

In **3–5**, write the values of the given digits.

3. the 2s in 42,256
2,000; 200

4. the 9s in 9,905,482
9,000,000; 900,000

5. the 4s in 305,444
400; 40; 4

6. Write 12,430,000 in expanded form.
$1 \times 10{,}000{,}000 + 2 \times 1{,}000{,}000 + 4 \times 100{,}000 + 3 \times 10{,}000$

7. Write 337,060 in expanded form using exponents.
$(3 \times 10^5) + (3 \times 10^4) + (7 \times 10^3) + (6 \times 10^1)$

8. Write the number name for 3,1<u>5</u>2,308.

What is the value of the underlined digit?
Three million, one hundred fifty-two thousand, three hundred eight; 50,000

9. Sue and Jonah chose numbers for a place-value game. Sue chose the number one hundred fifty-two thousand. Jonah chose five million for his number. Who chose the greater number? Explain.

Jonah; Sample answer: Jonah's number has 5 millions and Sue's number has no millions.

10. Higher Order Thinking One day, total attendance at the state fair was 126,945. Round 126,945 to the nearest hundred thousand, nearest ten thousand, and nearest thousand. Which of these rounded amounts is closest to the actual attendance?

100,000; 130,000; 127,000; 127,000

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11. Maricko and her family went on a 10-day vacation. She read 12 pages in her book each day. How many total pages did she read while on vacation?
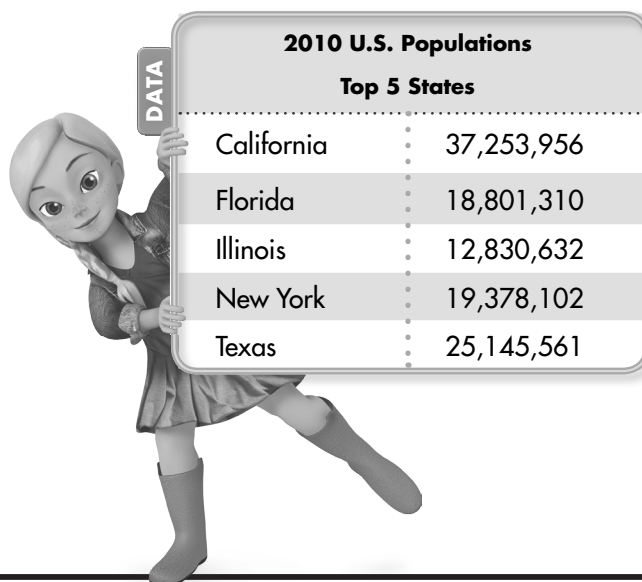
120 pages

? total pages

10 days → | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |

12 pages for each day

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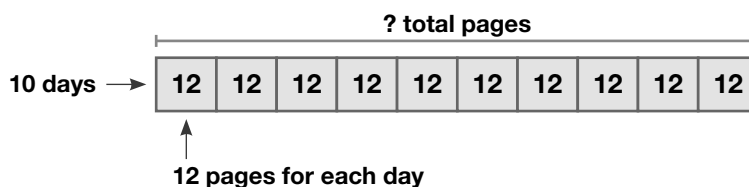
12. Construct Arguments Is the value of the first 5 in California's population 10 times as great as the value of the second 5? Explain.

No. Since the digits are not next to each other, one value is more than 10 times greater than the other value.

13. Number Sense Write the population of Florida in expanded form using exponents.

$(1 \times 10^7) + (8 \times 10^6) + (8 \times 10^5) + (1 \times 10^3) + (3 \times 10^2) + (1 \times 10^1)$

DATA

2010 U.S. Populations Top 5 States	
California	37,253,956
Florida	18,801,310
Illinois	12,830,632
New York	19,378,102
Texas	25,145,561

✓ **Assessment Practice**

14. Joseph says that in the number 9,999,999, all the digits have the same value.

Part A

Is Joseph correct? Explain.

No; Sample explanation: Although the digits are all the same, each digit has a different value.

Part B

Describe the relationship between the values of the digits in the number.

Sample answer: Each digit has a value 10 times the value of the digit to its right and $\frac{1}{10}$ of the value of the digit to its left.