

Warm Up



Remember!



Review from grade 5:

Standard form: 623 175

Expanded form: $600\ 000 + 20\ 000 + 3\ 000 + 100 + 70 + 5$

Number-word form: 6 hundred 23 thousand 175

Written: six hundred twenty three thousand one hundred seventy five

Try doing the expanded and number-word form for

42 054 321

Expanded

Number-word

$(40\ 000\ 000) + (2\ 000\ 000) + (50\ 000) + (4\ 000) + (300) + (20) + (1)$

42 million 54 thousand 3 hundred 21

Practise!

1) Write the following in **standard form**

a) $\underbrace{60\ 000\ 000\ 000}_{\text{trillions}} + 50\ 000\ 000 + 1\ 000\ 000 + 2\ 000 + 700 + 50 + 4$

~~✗~~

b) 26 million 347 thousands ~~3~~

~~✗~~

c) nine billion three hundred forty-two million sixty-three thousands twenty

~~✗~~

a) 6 0 0 5 1 0 0 2 7 5 4

b) 26 347 003

c) 9 342 063 020

A) What is 1 000 000 more than 863 000 (Show work)

$$\begin{array}{r} 1\ 000\ 000 \\ +\ 863\ 000 \\ \hline 1\ 863\ 000 \end{array}$$

#3) b) Write the number that is 10 000 less than 63 625 301 (Show work or explain how you know)

Homework

(slides 6-12)

Practice



Write each number in standard form.

- a) $20\,000\,000 + 4\,000\,000 + 300\,000 + 40\,000 + 2000 + 500 + 80 + 4$
- b) 6 million 276 thousand 89
- c) two billion four hundred sixty million sixty-nine thousand eighteen

Write each number in expanded form.

- a) 75 308 403
- b) 64 308 470 204
- c) 99 300 327

Write the number that is:

- a) 10 000 more than 881 462
- b) 100 000 less than 2 183 486
- c) 1 000 000 more than 746 000
- d) one million less than 624 327 207

Tell how you know.

6. China is the most populated country in the world. In 2007, it had an estimated population of one billion three hundred twenty-one million eight hundred fifty-one thousand eight hundred eighty-eight.

Write this number in standard form and in expanded form.

7. The largest known prehistoric insect is a species of dragonfly.
It lived about 280 000 000 years ago.
Write this number in words.



8. North America's largest shopping centre is in Edmonton, Alberta.
It covers an area of 492 386 m² and cost about \$1 200 000 000 to build.
Write these numbers in a place-value chart.



9. A student read 3 000 146 as “three thousand one hundred forty-six.”
How would you explain the student’s error?

10. I am a number between 7 000 000 and 8 000 000.

All my digits are odd.

All the digits in my thousands period are the same.

All the digits in my units period are the same.

The sum of all my digits is 31.

What number am I?

Give as many answers as you can.

What strategies did you use to find the
mystery number?



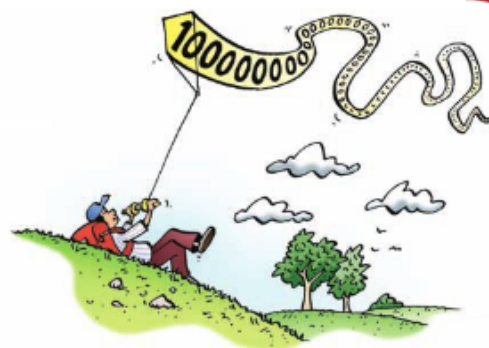
11. In November, 2005, six-year-old Brianna Hunt found a fossilized squid near her home on the Blood Reserve, outside Lethbridge, Alberta. The fossil is believed to be about 73 million years old. Write this number in standard form.



Math Link

Number Sense

A googol is a number represented by 1 followed by 100 zeros. The word *googol* was created in 1920 by an American mathematician, Edward Kasner, on the basis of his 9-year-old nephew's word for a very large number.



At Home



