

Test Review

Date _____

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Write each number in scientific notation.

1) 0.00183

2) 740

3) 250000

4) 0.33

Write each number in standard notation.

5) 4.53×10^{-3}

6) 1.9×10^4

7) 9.7×10^{-5}

8) 0.031×10^4

Simplify. Write each answer in scientific notation.

9) $(3.5 \times 10^4)(9.5 \times 10^{-6})$

10) $(6.5 \times 10^{-2})(8.8 \times 10^{-6})$

11) $\frac{4 \times 10^4}{8 \times 10^{-4}}$

12) $\frac{8.78 \times 10^4}{2.5 \times 10^{-5}}$

13) $(2.42 \times 10^{-6})^{-3}$

14) $(8 \times 10^4)^6$

15) $(2.5 \times 10^4) - (1.5 \times 10^3)$

16) $(1.43 \times 10^2) + (7.105 \times 10^5)$

17) China's population was made up of 5.1×10^7 people and America's population was 3.9×10^6 people in 2008. How much larger was the population of China in 2008?

18) The mass of the Sun is 1.989×10^{30} kilograms. The mass of the Earth is 5.98×10^{24} kilograms. How many times larger is the Sun than the Earth?

19) There are approximately 3.1×10^8 people in the United States. If on average each person has 4.1×10^1 coins lying around on dressers, in pockets, in cars, etc., how many total coins do all the people in the U.S. have?

20) In 2006, China had 1.311×10^8 internet users. That same year, Japan had 9.09×10^7 internet users. How many internet users did the two countries have combined? ?

Test Review

Date _____

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Write each number in scientific notation.

1) 0.00183

1.83×10^{-3}

2) 740

7.4×10^2

3) 250000

2.5×10^5

4) 0.33

3.3×10^{-1}

Write each number in standard notation.

5) 4.53×10^{-3}

0.00453

6) 1.9×10^4

19000

7) 9.7×10^{-5}

0.000097

8) 0.031×10^4

310

Simplify. Write each answer in scientific notation.

9) $(3.5 \times 10^4)(9.5 \times 10^{-6})$

3.325×10^{-1}

10) $(6.5 \times 10^{-2})(8.8 \times 10^{-6})$

5.72×10^{-7}

11) $\frac{4 \times 10^4}{8 \times 10^{-4}}$

5×10^7

12) $\frac{8.78 \times 10^4}{2.5 \times 10^{-5}}$

3.512×10^9

13) $(2.42 \times 10^{-6})^{-3}$

7.056×10^{16}

14) $(8 \times 10^4)^6$

2.621×10^{29}

15) $(2.5 \times 10^4) - (1.5 \times 10^3)$

2.35×10^4

16) $(1.43 \times 10^2) + (7.105 \times 10^5)$

7.10643×10^5

17) China's population was made up of 5.1×10^7 people and America's population was 3.9×10^6 people in 2008. How much larger was the population of China in 2008?

4.71×10^7 people

18) The mass of the Sun is 1.989×10^{30} kilograms. The mass of the Earth is 5.98×10^{24} kilograms. How many times larger is the Sun than the Earth?

3.326×10^5 or 332,600 times larger

19) There are approximately 3.1×10^8 people in the United States. If on average each person has 4.1×10^1 coins lying around on dressers, in pockets, in cars, etc., how many total coins do all the people in the U.S. have?

1.271×10^{10} Coins

20) In 2006, China had 1.311×10^8 internet users. That same year, Japan had 9.09×10^7 internet users. How many internet users did the two countries have combined? ?

2.22×10^8 Internet users