

# MasterMath

## Scientific Notation

Name \_\_\_\_\_  
Date \_\_\_\_\_

1. There is approximately 326,000,000,000,000,000 gallons of water on the earth. Please write this number in Scientific Notation.



$3.26 \times 10^{20}$

2. The volume of the moon is  $2.1958 \times 10^{10} \text{ km}^3$ . Write this number in Standard form.



21,958,000,000

3. The surface atmospheric pressure on the moon during the day is  $9.999^{-8}$  Pascals. What is this number in standard form?

.0000009999

4. Earth mass ( $M_{\oplus}$ ) is the unit of mass equal to that of the Earth.  $1 M_{\oplus} = 5.9722 \times 10^{24} \text{ kg}$ . Write this number in standard form.

5,972,200,000,000,000,000,000,000

5. The diameter of the nucleus of a hydrogen atom is  $1.75 \times 10^{-10} \text{ m}$ . Please express this in standard form.

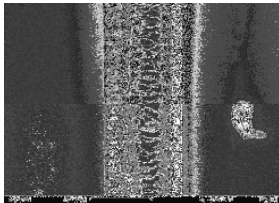


.000000000000000175

6. What is the product of these numbers. Express your answer in both Scientific Notation and Standard Form.

			Scientific Notation	Standard Form
$3 \times 10^5$	x	$1 \times 10^3$	$3 \times 10^8$	300,000,000
$1.2 \times 10^4$	x	$2.3 \times 10^5$	$2.76 \times 10^9$	2,760,000,000
$3.2 \times 10^4$	x	$4.1 \times 10^3$	$1.312 \times 10^8$	131,200,000
$4 \times 10^8$	x	$2 \times 10^{-3}$	$8 \times 10^5$	800,000
$3.25 \times 10^{-4}$	x	$1.2 \times 10^{-3}$	$3.9 \times 10^{-7}$	0.00000039

7. The diameter of a hair is .000099 meters. Express this number in Scientific Notation.



$9.9 \times 10^{-5}$