

Writing Scientific Notation

Scientific Notation

A number is expressed in scientific notation when it is in the form

a x 10ⁿ where a is between 1 and 10 and n is an integer



This is way of writing very big or small numbers in an easier way.

150,000,000



This is way of writing very big or small numbers in an easier way.

0.0000625



Write the following in scientific notation:

- 1) 64,830,000,000,000
- 2) 0.0000000089

3) 118,000,000,000,000

4) 0.00000000000025

5) 67

6) A large corporation purchased a video-sharing website for \$1,650,000,000. Write this number in scientific notation.

7) The 2004 Indonesian earthquake slowed the rotation of Earth, making the length of a day 0.00000268 second shorter. Write this number in scientific notation.

8)



An album receives an award when it sells 10,000,000 copies.

An album has sold 8,780,000 copies. How many more copies does it need to sell to receive the award?

(A)
$$1.22 \times 10^{-7}$$
 (B) 1.22×10^{-6}

(**C**)
$$1.22 \times 10^6$$
 (**D**) 1.22×10^7

9) The table shows when the last three geologies three geologic eras began. Order the eras from earliest to most recent.

C.C.	
Era	Began
Paleozoic	$5.42 imes 10^8$ years ago
Cenozoic	$6.55 imes 10^7$ years ago
Mesozoic	2.51×10^8 years ago