

8.EE.A.3: Scientific Notation 1b

- 1 Expressed in decimal notation, 4.726×10^{-3} is
- 2 According to the 2000 census, the population of New York State was approximately 18,900,000. How is this number expressed in scientific notation?
- 3 The distance from Earth to the Sun is approximately 93 million miles. A scientist would write that number as
- 4 The video of the movie Star Wars earned \$193,500,000 in rental fees during its first year. Expressed in scientific notation, the number of dollars earned is
- 5 Expressed in scientific notation, the number 4,600,000,000 is
- 6 A micron is a unit used to measure specimens viewed with a microscope. One micron is equivalent to 0.00003937 inch. How is this number expressed in scientific notation?
- 7 The approximate number of seconds in a year is 32,000,000. When this number is written in scientific notation, the numerical value of the exponent is
- 8 If $6.54 \times 10^n = 65,400$, what is the value of n ?
- 9 If 0.0154 is expressed in the form 1.54×10^n , n is equal to
- 10 If 0.0347 is written by a scientist in the form 3.47×10^n , the value of n is
- 11 What is the value of n if the number 0.0000082 is written in the form 8.2×10^n ?
- 12 The mass of an orchid seed is approximately 0.0000035 gram. Written in scientific notation, that mass is equivalent to 3.5×10^n . What is the value of n ?
- 13 The size of a certain type of molecule is 0.00009078 inch. If this number is expressed as 9.078×10^n , what is the value of n ?
- 14 Which expression is equivalent to 6.02×10^{23} ?
 - 1) 0.602×10^{21}
 - 2) 60.2×10^{21}
 - 3) 602×10^{21}
 - 4) 6020×10^{21}
- 15 The expression 0.62×10^3 is equivalent to
 - 1) 0.062
 - 2) 62,000
 - 3) 6.2×10^4
 - 4) 6.2×10^2
- 16 The number 8.375×10^{-3} is equivalent to
 - 1) 0.0008375
 - 2) 0.008375
 - 3) 0.08375
 - 4) 8,375
- 17 The number 1.56×10^{-2} is equivalent to
 - 1) 156
 - 2) 0.156
 - 3) 0.0156
 - 4) 0.00156

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Answer Section

1 ANS:

0.004726

REF: 080004a

2 ANS:

 1.89×10^7

REF: 060720a

3 ANS:

 9.3×10^7

REF: 010111a

4 ANS:

 1.935×10^8

REF: 080715a

5 ANS:

 4.6×10^9

REF: 060808a

6 ANS:

 3.937×10^{-5}

REF: 080607a

7 ANS:

7

REF: 010206a

8 ANS:

4

REF: 080801a

9 ANS:

-2

REF: spring9808a

10 ANS:

-2

REF: 080210a

11 ANS:

-6

REF: 010911a

12 ANS:
-6

REF: 060504a

13 ANS:
-5

REF: 010609a

14 ANS: 3

REF: 089904a

15 ANS: 4

REF: 080511a

16 ANS: 2

REF: 060301a

17 ANS: 3

REF: 080424a