

Scientific Notation

Example: 1

Write 253,305 in scientific notation.

2 5 3 3 0 5

We should move the decimal point 5 places to the left. So, the exponent will be 5.

$$253,305 = 2.53305 \times 10^5$$

Example: 2

Write 0.00000017 in scientific notation.

0.0 0 0 0 0 0 0 0 1 7

We should move the decimal point 8 places to the right. So, the exponent will be -8.

$$0.00000017 = 1.7 \times 10^{-8}$$

Express each number in scientific notation.

1) 0.0000000000 = _____

2) 915,000 = _____

3) 0.000000033 = _____

4) 76,480,000,000 = _____

5) 0.0000000470 = _____

6) 1,907,000 = _____

7) 0.0000000000 = _____

8) 42,000,000,000,000 = _____

9) 0.00000025476 = _____

10) 6,440,000,000 = _____

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