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8.EE.A.3 Express Numbers in Scientific Notation

8.EE.A.3 Use numbers expressed in the form of a single digit times an integer power of 10 to estimate very large or very small quantities, and to express how many times as much one is than the other.

1. Write 75,800 in scientific notation.

   [A] 0.758×10^5 [B] 75.8×10^3

   [C] 7.58×10^4 [D] 758×10^2

2. Write 2,220,000 in scientific notation.

   [A] 222×10^4 [B] 0.222×10^7

   [C] 2.22×10^6 [D] 22.2×10^8

3. Write 713,000 in scientific notation.

4. Write 92,800 in scientific notation.

5. Write 5,640,000 in scientific notation.

6. Write 0.0121 in scientific notation.

   [A] 0.121×10^{-3} [B] 121×10^{-4}

   [C] 1.21×10^{-2} [D] 0.121×10^{-1}

7. Write 0.000346 in scientific notation.

   [A] 0.346×10^{-5} [B] 346×10^{-6}

   [C] 3.46×10^{-4} [D] 0.346×10^{-3}

8. Write 0.0000281 in scientific notation.

   [A] 2.81×10^{-5} [B] 0.281×10^{-4}

   [C] 0.281×10^{-6} [D] 281×10^{-7}

9. Write 0.000163 in scientific notation.

10. Write 0.00000534 in scientific notation.

11. Write 0.0000691 in scientific notation.

12. Which number is not written in scientific notation?

    [A] 6.7×10^2 [B] 5.5555×10^{-24}

    [C] 3×10^{-10} [D] 15.5×10^4

    [E] 2.567×10^{-2}

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Answer Key

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[1] C

[2] C

[3] 7.13×10^{5}

[4] 9.28×10^{4}

[5] 5.64×10^{6}

[6] C

[7] C

[8] A

[9] 1.63×10^{-4}

[10] 5.34×10^{-6}

[11] 6.91×10^{-5}

[12] D