

Scientific Notation

11. Peter determined the area, in square miles, of a piece of land using his calculator. The result of his calculation is displayed on his calculator in scientific notation as $7.4E - 4$.

Which statement is true of the area of the piece of land?

- A. It is between 0.07 and 0.7 square mile.
- B. It is between 0.007 and 0.07 square mile.
- C. It is between 0.0007 and 0.007 square mile.
- D. It is between 0.00007 and 0.0007 square mile.

0.00074×10^{-4}

28. The figure shows a spreadsheet Shona made to record the mass, in grams, of several samples of cells. Her spreadsheet automatically converts the masses into scientific notation.

	A	B
1	Sample	Mass (grams)
2	Sample A	7.50 E -5
3	Sample B	3.22 E -7
4	Sample C	8.00 E -10
5	Sample D	6.13 E -5

0.000750
0.00000322
0.000000008
0.0000613

Moment
Xavier joined
our group

List the four samples from least mass to greatest mass.

Sample A 4th Sample B 2nd Sample C 1st Sample D 3rd

Least Mass

Greatest Mass

sample C, Sample B, Sample D, Sample A

19. A carpenter bought 750 nails. Each nail has a mass of 5.2×10^{-3} kilogram. What is the total mass, in kilograms, of the nails the carpenter bought? Give your answer as a decimal.

Enter your answer in the box.

3.9

$$\begin{array}{r} 0.0052 \\ \times 750 \\ \hline 3.9 \end{array}$$

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Least Mass
Greatest Mass

sample C sample B sample D sample A

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3.9 kg

.0052

	21
.0052	
x 750	

0000	
02600	
+036400	

039000	