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Scientific Notation Worksheets 8th Grade

- Express **1760** in the scientific notation.
- Express 9×10^6 as a whole number.
- Match the following decimals from group A with their approximate scientific notations in group B:

A
7.401
0.00019
2399.1

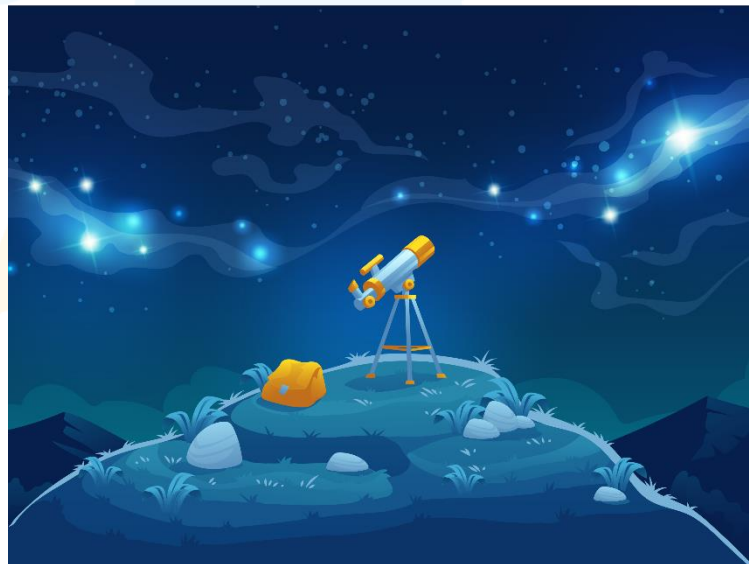
B
 24×10^{-2}
 7.5×10^1
 2×10^{-4}

- Simplify and express in the scientific notation form:
 $8.672 \times 10^{-3} + 9.11 \times 10^{-4}$
- If $m(b) = \frac{1}{3} \times \frac{6}{7} \times \left(\frac{7}{2}\right)^b$, find the value of $m(3)$.
- In the decimal number **0.000116**, in which direction and by how many places must we move the decimal to express it in the scientific notation form?
- Compare the following numbers:
 -4×10^{-4} _____ -40×10^{-5}
- Dust particles on a table contain 2.308×10^9 germs, when viewed from an electron microscope. If there are 171.34×10^{12} germs on the chair. Find the difference between the germs on the table and on the chair.

9. A truck loads 2.34×10^3 tonnes of cement. Find the weight of 15 such trucks in the scientific notation form.



10. Andrew with his telescope, on a certain evening can view approximately 9.09×10^{89} stars. On another evening he can only view $\frac{2}{3}$ rd of the stars, due to low visibility. Find the approximate number of stars, in a scientific notation form, that he can see on the day with low visibility.



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"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1) 1.760	6) 4 places to the right
2) 9,000,000	7) =
3) $7.401 \leftrightarrow 7.5 \times 10^1$ $0.00019 \leftrightarrow 2 \times 10^{-4}$ $2399.1 \leftrightarrow 24 \times 10^{-2}$	8) 1.71×10^{14}
4) 9.583×10^{-3}	9) 3.51×10^4
5) $\frac{49}{4}$	10) 6.06×10^{89}

FUN FACT

- Scientific notation is a method to represent huge or small decimal numbers in a standard form.
- The exponent of **10**, that is **k** can be a negative integer or a positive integer.
- To convert any decimal number to its standard form, we just need to change the decimal place.

