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## Scientific Notation Worksheets 8th Grade

1. Express 0.000837  
in scientific notation.

2. Write  $2.336 \times 10^{-6}$  as a decimal number.

3. Can **0.031** be expressed approximately as  $3 \times 10^{-2}$  in the standard form?

4. Simplify and write the answer in the standard form:

$$3.9 \times 10^{19} \div 0.003 \times 10^{23}$$

5. Simplify and write the answer in scientific notation form:

$$2.58 \times 10^{-2} + 0.95 \times 10^5$$

6. Find the value of  $f(3)$ , when  $f(x) = \frac{11}{3} \times \left(\frac{2}{3}\right)^{-x}$ .

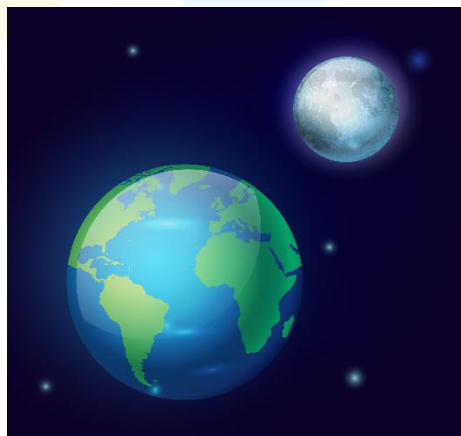
7. Put  $<, >$  **or**  $=$  to compare the given numbers:

$$-4.15 \times 10^2 \text{ \_\_\_\_\_\_ } -2.97 \times 10^2$$

8. Sam has a plot with an area of  $1.15 \times 10^3 \text{ units}^2$  and Sharon has a plot with an area of  $1.15 \times 10^4 \text{ unit}^2$ . Who among the two has a smaller plot and by how much? Write your answer as a whole number.



9. The diameter of earth is 4 times than that of moon. Find the diameter of earth if the diameter of the moon is  $3 \times 10^6 \text{ m}$ . Write your answer in the standard form.



10. If the number of bacteria becomes twice every hour. If initially there are  $2.1 \times 10^{16}$  number of bacteria in the lab.

Find the number of bacteria **3** hours after the experiment started. Write your answer in the scientific notation form.



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## ANSWERS



1) $8.37 \times 10^{-4}$	6) $\frac{99}{8}$
2) 0.000002336	7) $<$
3) Yes	8) Sam, By $10350 \text{ unit}^2$
4) $1.3 \times 10^{-1}$	9) $12 \times 10^6 m$
5) $9.5 \times 10^4$	10) $16.8 \times 10^{16}$

- 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.

