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## Scientific Notation Worksheets 8th Grade

1. Express **12.79** in a scientific notation
2. Express  $7.35 \times 10^3$  as a whole number.
3. Put  $<$ ,  $>$  *or*  $=$  to compare the given numbers:

$$7.22 \times 10^2 \text{ \_\_\_\_\_\_ } 7.24 \times 10^{-3}$$

4. If  $k(a) = \left(\frac{81}{121}\right)^{\frac{1}{a}}$ , find the value of  $k(a)$ , when  $a = 2$ .

5. Simplify and write your answer as a scientific notation.

$$1.21 \times 10^6 \div 1.331 \times 10^4$$

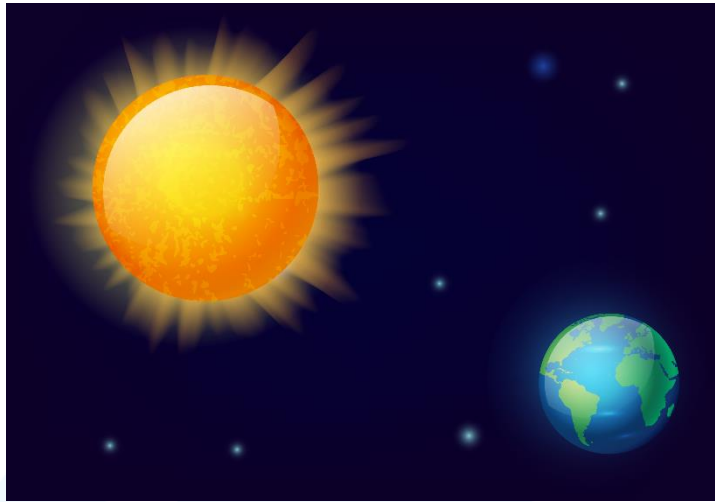
6. Simplify and express as a decimal number:

$$11.24 \times 10^{-2} - 3.4 \times 10^{-3}$$

7. In the decimal number **3671.89**, in which direction and by how many places must we move the decimal to express it in the scientific notation form?
8. If a racer bike covers a distance of  $7.22 \times 10^2$  miles in January and a distance of  $0.24 \times 10^3$  miles in February. In which month did it cover more distance?



9. The length of the metal rod P is  $1.624 \times 10^3$  inches. If the length of the metal rod Q is  $0.203 \times 10^2$  inches. How many times is the length of the metal rod Q to that of the metal rod P?
10. If the distance between the earth and the sun is  $1.57 \times 10^5$  light years. Find the distance that is three times the distance between the earth and the sun.



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**ANSWERS**

1) $1.279 \times 10^1$	6) 0.00784
2) 7350	7) 3 places to the left
3) >	8) January
4) $\frac{9}{11}$	9) 80
5) $9.09 \times 10^1$	10) $4.71 \times 10^5$

## 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.

