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GRADE

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Practice quiz on Exponents and Logarithms

TOTAL POINTS 12



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Graded quiz on Tangent Lines to Functions, Exponents and Logarithms

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0 / 1 point

2. A light-year (the distance light travels in a vacuum in one year) is 9,460 trillion meters. Express in scientific notation.

- ☒ 9.46×10^{15} kilometers
- ☐ 0.946×10^{16}
- ☐ 9460×10^{12} meters
- ☐ 9.46×10^{15} meters.



Incorrect

9,460 is (9.4×10^3) meters and one trillion meters is 10^{12} meters.
 $(9.4 \times 10^3)(10^{12}) = 9.4 \times 10^{15}$. A kilometer is 1000 meters.

7. Simplify $\log_{10} 1000 + \log_{10} \frac{1}{10000}$

0 / 1 point

- ☒ $\frac{1}{10}$
- ☐ $\log_{10} -10$
- ☐ -1
- ☐ 1

! Incorrect

By the Product Rule, this is:

$$\log_{10}\left(\frac{1000}{10000}\right) = \log_{10}\left(\frac{1}{10}\right) = ?$$

Don't give up! Try reworking the problem!

9. If $\log_{10} b = 1.8$ and $\log_a b = 2.5752$, what is a ?

☐ 6

☒ 3

☐ 4

☐ 5



Incorrect

To solve for a in the formula;

$$\log_a b = \frac{\log_x b}{\log_x a}$$

$$\log_a b = 2.5752 \text{ and } \log_{10} b = 1.8$$