

Applications

Connections

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online

Web Code: apd-3500 moɔ.lood>≳H9 :jisiV For: Pattern Iterator

Extensions

Predict the ones digit for the standard form of the number.

5. 12100 **4** 3110

3. 17¹⁰⁰

5 9 200 00I7 .r

For Exercises 6 and 7, find the value of a that makes the number sentence

6. $a^7 = 823,543$

standard form of 330. 8. Explain how you can use your calculator to find the ones digit of the

is not a square number? Explain. look for patterns in the ones digit of square numbers. Which number 9. Multiple Choice In the powers table you completed in Problem 5.1,

C. 1,392

10, 10¹⁰ Tell how many zeros are in the standard form of the number.

B. 784

12, 10¹⁰⁰

D. 10,000

11. 1050

Find the least value of x that will make the statement true.

 $14.3^{14} < 10^{x}$

x01 > 96 'EL

For Exercises 15-17, identify the greater number in each pair.

96 10 69 'LL

16. 8¹⁰ or 10⁸

15. 6¹⁰ or 7¹⁰

1. 2¹⁸ 6It .H **e**: 5₁₀ **18.** Multiple Choice Which expression is equivalent to $2^9 \times 2^{10}$?

power. Check your answers. Use the properties of exponents to write each expression as a single

 $\frac{818}{018}$.rs

20. $(75)^3$

 98×95 '61