Parent Resource



Finding Significant Digits

For this assignment, your student will be asked to find how many significant digits are in a given number. Knowing the number of significant digits in a number is a useful skill to have for many physics concepts. Another part of this assignment is to find if a zero within a number is considered significant or not. To help with this, here are a few rules to determine if the zero is significant:

- 1. A zero is not significant if it is at the end of an integer unless there is a decimal point or a bar.
 - a. 2500 has 2 significant digits
 - b. $25\overline{00}$ has 3 significant digits
 - c. 2500. has 4 significant digits
- 2. A zero is not significant if it is at the start of a decimal.
 - a. 0.00087 has 2 significant digits which are 8 and 7.
- 3. A zero is significant if it is at the end of a decimal.
 - a. 0.000870 has 3 significant digits which are 8, 7, and 0.
- 4. A zero is significant if it is located between two other digits.
 - a. 8.908 has 4 significant digits

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Answer Key

- 1. 2 significant digits
- 2. 2 significant digits
- 3. 3 significant digits
- 4. 4 significant digits
- 5. 2 significant digits
- 6. 2 significant digits
- 7. 5 significant digits
- 8. 1 significant digit
- 9. 1 significant digit
- 10. 3 significant digits
- 11. 5 significant digits
- 12. 5 significant digits
- 13. 4 significant digits
- 14. 5 significant digits
- 15. 6 significant digits
- 16. 3 significant digits
- 17. 3 significant digits
- 18. 1 significant digit
- 19. 1 significant digit
- 20. 1 significant digit