

Chemistry 12 - Review of Significant Digits

TOTAL 28

The rules for zeros in significant digits are as follows:

a) All zeros between non-zero digits are significant.

b) Zeros at the beginning of a number (eg. 0.0095) are NOT SIGNIFICANT.

If the number 0.0095 was written in scientific notation, it would be:  $9.5 \times 10^{-3}$ . The exponent is not counted as significant so this number has 2 significant digits.

c) Zeros on the right side of a number (at the end) are significant if the DECIMAL POINT is shown.

eg) 50.00 has 4 significant digits  
43.0 has 3 significant digits  
20. has 2 significant digits  
100. has 3 significant digits

d) Zeros to the left of an UNDERSTOOD decimal point are NOT significant.

eg) 300 has 1 significant digit  
10 000 has 1 significant digit  
12 320 has 4 significant digits  
420 has 2 significant digits

1. Find the number of significant digits in each of the following measurements:

- |                                    |                                     |
|------------------------------------|-------------------------------------|
| a) 3.4005 ..... (5)                | f) $9.080 \times 10^{-3}$ ..... (4) |
| b) 2580 ..... (3)                  | g) 1.00 ..... (3)                   |
| c) $3.20 \times 10^{-2}$ ..... (3) | h) 0.0027890 ..... (5)              |
| d) 0.000308 ..... (3)              | i) 320 000 ..... (2)                |
| e) 23.000 ..... (5)                | j) 9 ..... (1)                      |

# Instructional Fair Chem Worksheets

**Anthony S. Fauci**



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## Unveiling the Magic of Words: A Report on "**Instructional Fair Chem Worksheets**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Instructional Fair Chem Worksheets**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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