

# DO NOW

What are the formulas for perimeter of a rectangle and area of a rectangle?

$$P_{\square} = 2l + 2w$$

$$A_{\square} = lw$$

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## 1.8 Significant Digits

Significant digits - digits used - excludes zeros at the beginning of a decimal and the end of an integer.

- Rules:
1. All nonzero digits are significant.
  2. All zeros between significant digits are significant.
  3. All zeros at the end of a decimal are significant.
  4. Zeros that precede the 1<sup>st</sup> nonzero digit in a decimal are NOT significant.

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Accuracy: number of significant digits in a measurement

\* Number answer

Precision: place value of the last significant digit in a measurement.

\* Word answer

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Examples	Number of Significant Digits	Precision
265	3	ones
<u>35</u> ,000	2	thousands
<u>2405</u>	4	ones
0.00 <u>572</u>	3	hundred thousandths
<u>3.460</u>	4	thousandths
0.09 <u>04</u>	3	ten thousandths
<u>2.007</u>	4	thousandths
<u>2.70</u>	3	hundredths
<u>2,700</u>	2	hundreds
<u>52,000</u>	2	thousands

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