Significant Figures #1

1. Significant figures include all ______ or _____ digits plus one ______ digit.

- 2. Rules for determining significant figures:
 - Non-_____ numbers are ______ significant.
 - _____ zeros are between non-zero numbers and are ______ significant.
 - _____ zeros are final zeros. Significance is determined by the absence or present of the _____.
 - _____ zeros act as placeholders and are removed when the number is converted to scientific notation. These zeros are ______ significant.
 - Infinite numbers of significant figures are found in ______ numbers and defined
- 3. Determine the number of significant figures in the following.
 - 6.6 • 0.0922 • 7.475×10^4 • 31
 - 80
 6.300 × 10⁶ • 5052
 - 0.7401
 - 5×10^{-5} • 300

4. Calculated answers cannot be more precise than the measuring tools used to make the original measurements. Calculated answers must match the _____ precise measurements.

- When adding and subtracting, the calculated answer has the same number of ______ _____as the measurement with the ______decimal places.
- When multiplying and dividing, the answer has the same number of ______ ______as the measurement with the _______significant figures.