

# Significant Figures

(Pacific/Atlantic Method)

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# In words:

- Rule #1: All non-zero digits are significant
- Rule #2: Zeros in front of a number are not significant
- Rule #3: Zeros between non-zero digits are significant
- Rule #4: Zeros at the end of a number are significant if there is a decimal point in the number

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# The Atlantic/Pacific Rules for Determining Significant Figures

Look for the **P**resence of a decimal point;

on the **P**acific side of the number start counting from the first non-zero number



With the **A**bsence of a decimal point;

on the **A**tlantic side of a number start counting from the first non-zero number

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For example,  
with a decimal point:



**0.0030**

Decimal point **P**resent, count from first non-zero number on the **P**acific (& count to the Atlantic) side

So from the first non-zero number from the Pacific side, 3, counting to the 'Atlantic', would be **two** significant figures

**40507.060**

From the first non-zero number from the Pacific side, 4, counting to the 'Atlantic', would be **eight** significant figures.

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For example,  
without a decimal point:

**30000**

Decimal point is **A**bsent, count from first non-zero number  
on the **A**tlantic to the 'Pacific' side

From the first non-zero digit from the Atlantic side, 3, count  
to the 'Pacific', would be **one** significant figures

**1098070**

From the first non-zero digit from the Atlantic side, 7, count to  
the 'Pacific', would be **six** significant figures.



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