

Nov 7 Day 2

Significant figures  $\equiv$  #s that are measured

Rule 1 - All non zeros are S.F.

#	S.F.
25	2
2.35	3
127.35	5

Rule 2 - Placeholders are not S.F.

<u>0.00035</u>	2
<u>0.0355</u>	3
<u>0.000255</u>	3
<u>25000</u>	2
<u>350</u>	2

Rule 3 - zeros at the end of a # beyond the decimal are S.F.

<u>165,0</u>	4
<u>165.00</u>	5
<u>0.00350</u>	3
<u>0.0001000</u>	4
<u>1.0</u>	<del>3</del> 2

Rule 4 - Zeros between S.F. are also S.F.

<u>30003</u>	5
<u>3.002</u>	4
<u>25.00010</u>	7
<u>0.00250010</u>	6

Nov. 8 Day 3

Sci not  $\frac{1}{2}$  S.F.

$6.02 \times 10^{23}$  | 3

$5.00 \times 10^{-8}$  | 3

↑  
Don't evaluate for S.F.

100 1 SF.

↖  $1.00 \times 10^2$  3 SF

↖ 100. 3 SF.

$\times \frac{1}{2} \div$  w/ S.F.

"go w/ the low"

$(2.53) (2.1) = \underline{5.313}$

↑  
3 SF

↑  
2 S.F.

$\boxed{5.3}$

$$\begin{array}{l}
 \text{3 s.f.} \\
 \downarrow \\
 \underline{3.10 \times 10^{25}} = \underline{1.55 \times 10^{25}} \\
 \begin{array}{l}
 2.0 \\
 \uparrow \\
 \text{2 s.f.}
 \end{array} \\
 = \boxed{1.6 \times 10^{25}}
 \end{array}$$

$$\begin{array}{r}
 + \quad - \\
 165.0 \text{ ? ? ? ? ? } 16 \\
 + \quad 0.000009 \text{ } 16 \\
 \hline
 165.000009 \text{ } 16 \\
 \boxed{165.0}
 \end{array}$$

$$\begin{array}{r}
 165.0 \text{ ? } 16 \\
 12.37 \text{ } 16 \\
 \hline
 177.3 \text{ (7)} \\
 \textcircled{177.4}
 \end{array}$$

$$13.000 - 2.1$$

$$\begin{array}{r} 13.000 \\ - 2.1 \\ \hline 10.9 \end{array}$$

Nov 9 Day 4

84567000 5 S.F

Rounding w/ S.F

$\begin{array}{r} 845\textcircled{6}7000 \\ \downarrow \downarrow \downarrow \downarrow \downarrow \\ 84600000 \end{array}$

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$0.\underline{14}\textcircled{4}99$

$0.14$

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200 1 SF

200. 3 SF

$2.00 \times 10^2$  3 SF

$2.0 \times 10^2$  2 SF