

Name \_\_\_\_\_

## Zero Rules for Significant Figures

1. Zeros are significant when bounded by non-zero digits.
2. Zeros preceding the first non-zero digit are never significant.
3. If a decimal point is expressed, all zeros after the first non-zero digit are significant.
4. If a decimal point is not expressed, zeros following the last non-zero digit are not significant.

		Sig. Figs.	The rule or rules that apply to determining the number of sig. figs.
1	0.025 seconds		
2	405 kg		
3	20.50 m		
4	7,600 cm		
5	0.0102 kg		
6	0.01020 g		
7	0.004 mL		
8	20010 mg		
9	$2.0 \times 10^2$ m		
10	500 mL		
11	$6.022 \times 10^{23}$ atoms		
12	0.50 mL		
13	0.30400 g		
14	10 mL		

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		Sig. Figs.	The rule or rules that apply to determining the number of sig. figs.
1	0.025 seconds	2	# 2
2	405 kg	3	# 1
3	20.50 m	4	# 1, # 3
4	7,600 cm	2	# 4
5	0.0102 kg	3	# 1 # 2 # 3
6	0.01020 g	4	# 1 # 2 # 3
7	0.004 mL	1	# 2
8	20010 mg	4	# 1, # 4
9	$2.0 \times 10^2$ m	2	# 3
10	500 mL	1	# 4
11	$6.022 \times 10^{23}$ atoms	4	# 1
12	0.50 mL	2	# 2, # 3
13	0.30400 g	5	# 1, 2, 3
14	10 mL	1	# 4