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Significant Digits Quiz: Solutions

A. Determine the number of significant digits

2	33	3	0.530	4	3000.
1	1000	1	000.001	7	43.00240
3	33.0	4	7.010	5	900.10
2	0.0030	5	0.10050	2	0.31
2	330	3	1.00	2	3300
4	410.0	3	3070	4	62.01

B. Determine the number of significant digits - then, rewrite the number using correct scientific notation and units

3	$5.10 \times 10^3 \text{ m}$	$5.10 \times 10^3 \text{ m}$
4	$4.900 \times 10^{-4} \text{ km}$	$4.900 \times 10^{-4} \text{ km}$
2	$0.0030 \times 10^{-1} \text{ g}$	$3.0 \times 10^{-4} \text{ g}$
4	$420.0 \times 10^6 \text{ m}^2$	$4.200 \times 10^8 \text{ m}^2$
1	$300 \times 10^2 \text{ N}$	$3 \times 10^4 \text{ N}$
3	$300. \times 10^2 \text{ Pa}$	$3.00 \times 10^4 \text{ Pa}$