

SIGNIFICANT FIGURES PRACTICE

How many significant figures are in each number? For 16-20, indicate the number of significant figures in the **bolded** number.

1	1.082	4	11	230.	3
2	0.034	2	12	2.710×10^2	4
3	3.2978×10^3	5	13	190	ambiguous – 2 or 3
4	10.00	4	14	190.	3
5	2.3	2	15	19.0	3
6	00138.20	5	16	diameter = 2.74×2	1
7	1006.0	5	17	diameter = 2.74 $\times 2$	3
8	0.0002	1	18	60 minutes in 1 hour	Infinite
9	2371	4	19	2 dozen = 24	Infinite
10	2370	ambiguous - 3 or 4	20	100 cm in 1 m	Infinite

Perform each calculation with the correct number of significant figures

21	3.2×9.02	29
22	9.002×0.001	0.009
23	$\begin{array}{r} 6.02 \\ \underline{9.1} \end{array}$	0.66
24	$3.625 + 9.01$	12.64
25	$6.005 - 0.02$	5.99
26	$71.2695 + 2.00 - 0.1$	73.2
27	$21.4 \times (6.1 - 1.1)$	1.1×10^2
28	$2462.258 + 942.65$	3404.91
29	$\begin{array}{r} (2.1 + 6.123) \\ \underline{2.2} \end{array}$	3.7
30	$6.2 \times 10.36 \times (2.01 - 6)$	-3×10^2
31	$31.278 - 12.65 + 9.2$	27.8
32	$\begin{array}{r} 0.006 \\ \underline{0.0006} \end{array}$	10
33	$3.2 + 9.2845623 - 2$	10
34	$(3.1 - 0.01)(5.0 + 1.2345)$	19
35	$78 \div 9.25874$	8.4
36	$2.198 + 384$	386
37	$3.2 \times 10^{-3} + 1.2 \times 10^4$	1.2×10^4
38	$0.0000005 + 1.0$	1.0
39	$(0.035 + 20.) \times 19$	3.8×10^2
40	$\begin{array}{r} 27.5 \\ \underline{(3.002 - 0.01)} \end{array}$	9.19