

Problem Set - Significant Figures #1 - Answers

Give the number of significant figures for each of the following clearly describing how you come to this answer. If you wanted to do an accurate calculation, which number would you use (give me your reasoning).

1. $2.4 \times 10^5 \rightarrow 2$
2. $23,000 \rightarrow$ Probably 2
3. $0.0231 \rightarrow 3$
4. $2.705 \times 10^{-5} \rightarrow 4$
5. $2 \times 10^9 \rightarrow 1$
6. $23,000,000 \rightarrow$ Probably 2
7. $0.0023 \rightarrow 2$
8. $2.71 \times 10^{-3} \rightarrow 3$
9. $2.4 \times 10^{-5} \rightarrow 2$
10. $0.230 \rightarrow 3$
11. $0.000,002,31 \rightarrow 3$
12. $2.7 \times 10^5 \rightarrow 2$
12. $2.41 \times 10^{12} \rightarrow 3$
14. $23,100 \rightarrow$ Probably 3
15. $0.02301 \rightarrow 4$
16. $2.7 \times 10^{-1} \rightarrow 2$
17. $2.4 \times 10^0 \rightarrow 2$
18. $231 \rightarrow 3$
19. $0.000,23 \rightarrow 2$
20. $2.713 \times 10^{-5} \rightarrow 4$