

Name: _____

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Practice Worksheet on Significant Figures

Determine the significant figures in each of these numbers.

① 8120 _____

② 6.8×10^3 _____

③ 1000 _____

④ 0.03 _____

⑤ 918.010 _____

⑥ 780 _____

⑦ 0.002110 _____

⑧ 0.00030 _____

⑨ 890 _____

⑩ 15.0×10^{-5} _____

⑪ 3.4×10^4 _____

⑫ 818.020 _____

⑬ 4.6×10^{-5} _____

⑭ 0.00800 _____

⑮ 3.200×10^9 _____

Perform the following operations and round your answer to the correct number of significant figures.

⑯ $39.3 - 0.804 =$ _____

⑰ $38 \div 7 =$ _____

⑱ $10.0 \times 0.02 =$ _____

⑲ $8088 \times 0.4 =$ _____

⑳ $7.331 + 12.42 =$ _____

㉑ $19.6 - 8.77 =$ _____

㉒ $31.2 \times 4.1 =$ _____

㉓ $35.45 \times 6.1 =$ _____

㉔ $66.6 \div 11.1 =$ _____

㉕ $24.6 + 58.3 =$ _____

Significant Figures Pogil Activity

**Juliette Lantz, Renée Cole, The POGIL
Project**



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POGIL Shawn R. Simonson, 2023-07-03 Process Oriented Guided Inquiry Learning POGIL is a pedagogy that is based on research on how people learn and has been shown to lead to better student outcomes in many contexts and in a variety of academic disciplines Beyond facilitating students mastery of a discipline it promotes vital educational outcomes such as communication skills and critical thinking Its active international community of practitioners provides accessible educational development and support for anyone developing related courses Having started as a process developed by a group of chemistry professors focused on helping their students better grasp the concepts of general chemistry The POGIL Project has grown into a dynamic organization of committed instructors who help each other transform classrooms and improve student success develop curricular materials to assist this process conduct research expanding what is known about learning and teaching and provide professional development and collegiality from elementary teachers to college professors As a pedagogy it has been shown to be effective in a variety of content areas and at different educational levels This is an introduction to the process and the community Every POGIL classroom is different and is a reflection of the uniqueness of the particular context the institution department physical space student body and instructor but follows a common structure in which students work cooperatively in self managed small groups of three or four The group work is focused on activities that are carefully designed and scaffolded to enable students to develop important concepts or to deepen and refine their understanding of those ideas or concepts for themselves based entirely on data provided in class not on prior reading of the textbook or other introduction to the topic The learning environment is structured to support the development of process skills such as teamwork effective communication information processing problem solving and critical thinking The instructor s role is to facilitate the development of student concepts and process skills not to simply deliver content to the students The first part of this book introduces the theoretical and philosophical foundations of POGIL pedagogy and summarizes the literature demonstrating its efficacy The second part of the book focusses on implementing POGIL covering the formation and effective management of student teams offering guidance on the selection and writing of POGIL activities as well as on facilitation teaching large classes and assessment The book concludes with examples of implementation in STEM and non STEM disciplines as well as guidance on how to get started Appendices provide additional resources and information about The POGIL Project

Process Oriented Guided Inquiry Learning (POGIL) Richard Samuel Moog, 2008 POGIL is a student centered group learning pedagogy based on current learning theory This volume describes POGIL s theoretical basis its implementations in diverse environments and evaluation of student outcomes

Analytical Chemistry Juliette Lantz, Renée Cole, The POGIL Project, 2014-12-31 An essential guide to inquiry approach instrumental analysis Analytical Chemistry offers an essential guide to inquiry approach instrumental analysis collection The book focuses on more in depth coverage and information about an inquiry approach This authoritative guide reviews the basic principles and techniques

Topics covered include method of standard the microscopic view of electrochemistry calculating cell potentials the BerriLambert atomic and molecular absorption processes vibrational modes mass spectra interpretation and much more

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