

Significant Zeros

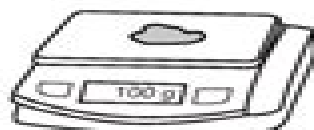
Which zeros are significant in a measurement, and which are simply important?

Why?

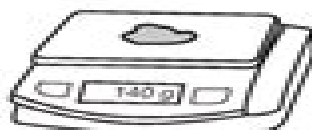
When working with measurements, it is important to know which digits in the measurement are significant and which are not. Non-zero digits are always significant. However, zeros can be tricky; some are significant, others are not. This activity will help you learn the rules for determining whether a zero digit is significant or not.

Model 1 – Mass of Rocks

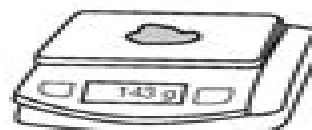
Sample A



Econo-Balance



Good Balance



Balance Pro



Exacto-Balance

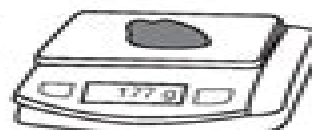
Sample B



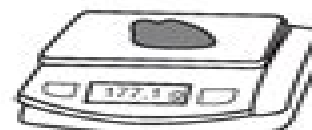
Econo-Balance



Good Balance



Balance Pro



Exacto-Balance

- For each balance in Model 1, circle the phrase below that best describes how closely the mass can be determined with that balance.

Econo-Balance	estimated to the nearest 100 g	estimated to the nearest 10 g	estimated to the nearest 1 g	estimated to the nearest 0.1 g
Good Balance	estimated to the nearest 100 g	estimated to the nearest 10 g	estimated to the nearest 1 g	estimated to the nearest 0.1 g
Balance Pro	estimated to the nearest 100 g	estimated to the nearest 10 g	estimated to the nearest 1 g	estimated to the nearest 0.1 g
Exacto-Balance	estimated to the nearest 100 g	estimated to the nearest 10 g	estimated to the nearest 1 g	estimated to the nearest 0.1 g

- Which of the four balances in Model 1 is the best quality instrument? Explain.

The Exacto-Balance is the best quality because it provides the most exact measurement. This is because it has the most digits and therefore measures in smaller increments.

Answer Key Of Significant Zeros

Ted Lister, Janet Renshaw



Answer Key Of Significant Zeros:

Significant Zero Walt Williams, 2017-09-19 An award winning videogame writer offers a rare behind the scenes look inside the gaming industry and expands on how games are transformed from mere toys into meaningful artistic experiences

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Basic Concepts of Chemistry Leo J. Malone, Theodore O. Dolter, 2011-12-27 The 9th edition of Malone's Basic Concepts of Chemistry provides many new and advanced features that continue to address general chemistry topics with an emphasis on outcomes assessment New and advanced features include an objectives grid at the end of each chapter which ties the objectives to examples within the sections assessment exercises at the end each section and relevant chapter problems at the end of each chapter Every concept in the text is clearly illustrated with one or more step by step examples Making it Real essays have been updated to present timely and engaging real world applications emphasizing the relevance of the material they are learning This edition continues the end of chapter Student Workshop activities to cater to the many different learning styles and to engage users in the practical aspect of the material discussed in the chapter WileyPLUS sold separately from text

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Theodore L. Brown, H. Eugene LeMay Jr., Bruce E.

Bursten, Catherine Murphy, Patrick Woodward, Steven Langford, Dalius Sagatys, Adrian George, 2013-10-04 If you think you know the Brown LeMay Bursten Chemistry text think again In response to market request we have created the third Australian edition of the US bestseller Chemistry The Central Science An extensive revision has taken this text to new heights Triple checked for scientific accuracy and consistency this edition is a more seamless and cohesive product yet retains the clarity innovative pedagogy functional problem solving and visuals of the previous version All artwork and images are now consistent in quality across the entire text And with a more traditional and logical organisation of the Organic Chemistry content this comprehensive text is the source of all the information and practice problems students are likely to need for conceptual understanding development of problem solving skills reference and test preparation **GO TO**

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