

MEASUREMENT UNCERTAINTY

READING COMPREHENSION WORKSHEET

<p>8. Measurement uncertainty can be defined as a range of values.</p> <ul style="list-style-type: none"> a. True b. False 	<p>9. The uncertainty in a measurement is the range of values that could be obtained.</p> <ul style="list-style-type: none"> a. True b. False 	<p>10. Significant figures in a measurement indicate the precision of the measurement.</p> <ul style="list-style-type: none"> a. True b. False 	<p style="text-align: center;">Measurement Uncertainty</p> <hr/> <p>Read the passage carefully before answering the questions that follow.</p> <div style="border: 1px solid black; padding: 10px;"> <p>Measurement uncertainty is an inherent part of all scientific measurements, arising from limitations in instrument precision, environmental factors, and human error. It is crucially important to quantify and understand measurement uncertainty for the sake of understanding and communication of the scientific process. The fundamental knowledge of how to estimate, propagate, and communicate an uncertainty is essential to the role of a measurement scientist.</p> <p>A scientific laboratory provides students an excellent opportunity to measure quantities such as length, mass, and volume. When using a ruler to measure length, an uncertainty in measurement exists because the student cannot determine the exact position of the object's end. Significant figures are used to indicate the uncertainty in the measurement. They indicate the precision level of the measurement process. For example, measuring a length as 10.5 cm means 10.50 cm. Significant figures are different from precision, with the latter referring to the significant figures used in a measurement.</p> <p>Measurement uncertainty also encompasses more than just accuracy, which refers to validity compared to accepted measurements. Precision refers to the consistency of repeated measurements. Systematic errors, on the other hand, are consistent errors that occur in the same direction. These errors can be reduced through a measurement process that uses multiple techniques. Other students in a laboratory can compare their measurements through consistency, identifying errors in calculation or data collection. The uncertainties of the measurements are propagated to the final answer of a calculation to ensure the results are consistent with the initial data.</p> <p>Students often measure the mass of an object using a balance. A student might measure a mass of 10.00 grams. If the balance measures a mass of 10.01 grams, then the final reported measurement should include the uncertainty, e.g., 10.01 ± 0.01 grams, indicating the possible error range. Other students may use multiple measurements with uncertainties. Propagation of uncertainty is essential to determine the final uncertainty in the data. Understanding measurement uncertainty through understanding and communicating measurement uncertainty is essential to the role of a measurement scientist.</p> </div>
<p>9. A measurement of 10.5 cm indicates a precision of 0.1 cm.</p> <ul style="list-style-type: none"> a. True b. False 	<p>11. The uncertainty in a measurement is the range of values that could be obtained.</p> <ul style="list-style-type: none"> a. True b. False 	<p>11. The uncertainty in a measurement is the range of values that could be obtained.</p> <ul style="list-style-type: none"> a. True b. False 	
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MS. EMILY HAYES

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Measurements And Their Uncertainty Answer Key

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Measurements And Their Uncertainty Answer Key:

Journal of Research of the National Institute of Standards and Technology ,1998 *Quantitative Chemical Analysis* Daniel C. Harris,2010-04-30 QCA is the bestselling textbook of choice for analytical chemistry It offers a modern portrait of the techniques of chemical analysis backed by a wealth of real world applications This edition features new coverage of spectroscopy and statistics new pedagogy and enhanced lecturer support ASTM Standardization News American Society for Testing and Materials,1979 Measurement Uncertainty in Chemical Analysis Paul De Bièvre,2003-01-17 It is now becoming recognized in the measurement community that it is as important to communicate the uncertainty related to a specific measurement as it is to report the measurement itself Without knowing the uncertainty it is impossible for the users of the result to know what confidence can be placed in it it is also impossible to assess the comparability of different measurements of the same parameter This volume collects 20 outstanding papers on the topic mostly published from 1999 2002 in the journal Accreditation and Quality Assurance They provide the rationale for why it is important to evaluate and report the uncertainty of a result in a consistent manner They also describe the concept of uncertainty the methodology for evaluating uncertainty and the advantages of using suitable reference materials Finally the benefits to both the analytical laboratory and the user of the results are considered *Objective NCERT Xtract Physics for NEET 6th Edition* Disha Experts, **Petrophysics** ,2004 **Proceedings of the ASME Design Engineering Division ...** ,2002 **Federal Register** ,1978-03 *Proceedings of the ... Intersociety Energy Conversion Engineering Conference* ,1997 The Electrical Journal ,1896 **The Electrician** ,1896 **English Mechanic and World of Science** ,1872 **United States Circuit Courts of Appeals Reports** ,1911 **United States Circuit Courts of Appeals Reports** United States. Courts of Appeals,1911 **Annual Book of ASTM Standards** ASTM International,American Society for Testing and Materials,2003 **The Engineer** ,1877 *Environment* Peter H. Raven,David M. Hassenzahl,Linda R. Berg,2012-04-13 Raven Hassenzahl and Berg s Environment threads the central themes of Systems and Sustainability throughout the text to help students understand the connection between the core concepts of Environmental Science and their daily lives The 8th edition features a rich collection of current case studies and in text examples highlighting these local and regional issues and providing students with the science and tools to understand apply and think critically about environmental science The Architect and Contract Reporter ,1899 **Quality Today** ,2000 *Chemical Principles in the Laboratory* Robert F. Bryan,Robert S. Boikess,1985

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