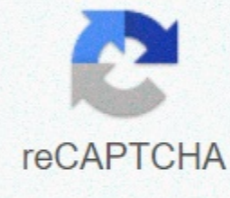




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3.4 linear dimensions answers

In this activity, you use your dimensioning knowledge to identify sizing errors and provide missing dimensions in multi-view drawings. You will also fully dimension multi-recap sketches according to the dimension guides. Conclusion:1. Why is the location of your dimensions so important? A: Dimension location helps the designer know the actual part size and not the size size. 2. Why do designers need to fully dimension a part? A: Designs must fully dimension an object so that it does not lack lengths.3. What does it mean when a sketch is overstepped? A: The sketch is overstepped if duplicate dimensions exist. Thank you for your participation! Thank you for your participation! Question Activity 3.4 Linear Dimensions Answer Key Purpose If you were given the responsibility to go to the store and purchase throw a carpet that had to fit into a room in your home, how would you communicate the shape and size of the room to the seller? Since the sketching skills that you have developed, you would probably sketch the top view of the room on a piece of paper. This would be useful, but the sketch itself communicates only shape information. The shape has a size that must be communicated in order to make smart design decisions. Object size information must be passed through dimensions. In production, the part must be fully and correctly dimensioned and with its own accuracy. Otherwise, the part may not function properly or may not fit in the assembly as intended. Sizing errors can lead to production time delays, increased design and production costs, and a potentially dangerous product. In this activity, you use your dimensioning knowledge to identify sizing errors and provide missing dimensions in multi-view drawings. You will also fully dimension multi-recap sketches according to the dimension guides. Device pencil number 2 with eraser Engineer's laptop weight Inch or ruler Procedure Identify dimensioning errors based on dimensioning instructions. Circle each error and place the letters A through P next to each error in the drawing. In the space below each drawing next to the relevant letter, indicate incorrectly the diming instructions and state the reason for each correction. © 2012 Project Lead Path, Inc. Introduction to Engineering Design Activities 3.4 Linear Dimensions Answer Key – Page 1.1. A multi-view #1 Dim. Guide Reason Dim. Reason A.B.C. D. © 2012 Project Lead Way, Inc. Introduction to Engineering Design Activities 3.4 Linear Dimensions Answer Key - Page 2 D End of Preview 356,961 Students Have Been Given a Taped Course Hero in the Last Week Our Expert Lecturers Provide Step by Step Solutions to Help You Excel in Your Courses

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