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STAT 226, Section D—Quiz 12 (4 pts.)

A paint is applied to tin panels and baked for 1 hour so that the mean index of hardness is 35.2. Suppose 18 test panels are painted and baked for 3 h, producing a sample mean index of hardness equal to 35.95 and standard deviation 2.2. Test (at the 5% significance level) the claim that longer baking does not affect hardness of the paint. For full credit, you have to show all your work, following the step-by-step procedure we have used for tests of hypothesis.