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6. A metal rod is 3.2 m long at 20 degrees C. The bar is put into a kiln and heated to a temperature of 95 degrees C. It is then measured and found to be 2.85 mm longer. What is the coefficient of linear expansion of this material? What is it most likely? (see chart in text)

7. A 10 m length of steel rebar is outside with the temperature of 32 degrees C. How much longer would it be in the summer heat of 42 degrees C?