Problem​ ​Statement​ ​1:

Find the variance for the following set of data representing trees in California (heights in

feet): 3,​ ​21,​ ​98,​ ​203,​ ​17,​ ​9

Solution:

**Step 1: Identify the Mean:**

Mean = (3+21+98+203+17+9)/6 = 58.5

**Step 2: Identify the Variance:**

Var = ((3-58.5)^2+(2-58.5)^2+(98-58.5)^2+(203-58.5)^2+(17-58.5)^2+(9-58.5)^2))/6

= (3080.25 + 1406.25 + 1560.25 + 20880.25 + 1722.25 + 2450.25) / 6

= 31099.5 / 6

= 5183.25

Therefore the **Variance for the Data Set is 5183.25**