

**Department of Mathematics**  
**MTL 390 (Sampling Distribution)**  
**Tutorial Sheet No. 2**  
**(Answers for Selected Problems)**

4. Mean = 286.2667 runs, Standard Deviation = 68.696
5. (b) Mean = 29.8867 years  
(c) Median Age = 27 years
6. Correct Mean = 5378, Correct Standard Deviation = 580.79
7. (a) Total number of children = 468  
(b) Mean = 2.34, Median = 2, Mode = 2  
(c) Sample Mean = 2.34, Sample Variance = 1.8344, Coefficient of Variation = 0.5788  
(d) Kurt[X] = 3.3369, Coefficient of Skewness = 1.27
8. (a) Range = 442000  
(d) Mean = 271.5 (in thousands of rupees), Median = 274500, Mode = 278070  
(e) Sample Geometric Mean =  $((X_1), (X_2), (X_{50}))^{1/50}$   
(f) Variance = 8877298.4, Std. Deviation = 2979.48  
(g) Coefficient of Variation = 0.3637

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