Quartiles, Deciles and Percentiles
Data Science and A.I. Lecture Series

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Numerical Example to Compute Deciles of Ungrouped Data

Given the data set 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51, 54, 57 and 60, calculate 3rd and 7th deciles.

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$D_7 = 42 + (0.70 \times (45 - 42))$

$D_7 = 42 + 2.1 = 44.1$

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$D_7 = 42 + 2.1 = 44.1$
Thus, the 7th Decile D_7 is 44.10

$\xleftrightarrow{\hspace{8cm}}$ Values

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3rd Decile

7th Decile

Values

3 6 9 12 15 18 21 24 27 30 33 36 39 42 45 48 51 54 57 60

$D_3 = 18.90$

$D_7 = 44.10$

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