

Q1. Find 67th percentile, 4th decile, 1st and 3rd quartile for the following ungrouped data

14.6, 24.3, 24.9, 27.0, 27.2, 27.4, 28.2, 28.8, 29.9, 30.7, 31.5, 31.6, 32.3, 32.8, 33.3, 33.6, 34.3, 36.9, 38.3, 44.0

Answer: $P_{67} = 32.8$; $Q_1 = 27.3$; $Q_3 = 33.45$; $D_4 = 29.35$

Q2. Find 2nd quartile, 30th percentile and 6th decile for the grouped data below given:

Class	Frequency
150 up to 155	8
155 up to 160	16
160 up to 165	23
165 up to 170	7
170 up to 175	19
Total	

Answer: $Q_2 = 162.7174$; $P_3 = 159.3438$; $D_6 = 164.3043$