Quartiles, Deciles and Percentiles

Data Science and A.I. Lecture Series

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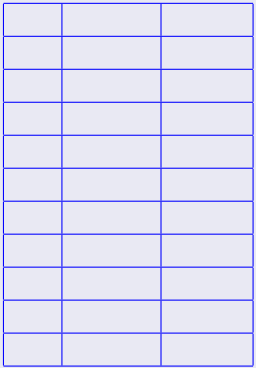
x_i	58	59	60	61	62	63	64	65	66
f_i	2	3	6	15	10	5	4	3	1



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58	2	2
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Computing D_3 :

From the following data compute the values of quartiles.

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63	5	41
64	4	45
65	3	48
66	1	50
	N=50	

Computing D_3 :
We have, $\frac{3N}{10} = \frac{3X50}{10} = 15$

From the following data compute the values of quartiles.

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x_i	f_i	C. F.
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63	5	41
64	4	45
65	3	48
66	1	50
	N=50	

Computing D_3 :
We have, $\frac{3N}{10} = \frac{3X50}{10} = 15$
Cumulative frequency just greater than 15 is 26, and the corresponding value of the variable is 61.

From the following data compute the values of quartiles.

x_i	58	59	60	61	62	63	64	65	66
f_i	2	3	6	15	10	5	4	3	1

x_i	f_i	C. F.
58	2	2
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	N=50	

Computing D_3 :
We have, $\frac{3N}{10} = \frac{3X50}{10} = 15$
Cumulative frequency just greater than 15 is 26, and the corresponding value of the variable is 61.
Third Decile D_3=61

From the following data compute the values of quartiles.

x_i	58	59	60	61	62	63	64	65	66
f_i	2	3	6	15	10	5	4	3	1

x_i	f_i	C. F.
58	2	2
59	3	5
60	6	11
61	15	26
62	10	36
63	5	41
64	4	45
65	3	48
66	1	50
	N=50	

Computing D_3 :
We have, $\frac{3N}{10} = \frac{3X50}{10} = 15$
Cumulative frequency just greater than 15 is 26, and the corresponding value of the variable is 61.
Third Decile D_3=61

Computing D_7:

From the following data compute the values of quartiles.

x_i	58	59	60	61	62	63	64	65	66
f_i	2	3	6	15	10	5	4	3	1

x_i	f_i	C. F.
58	2	2
59	3	5
60	6	11
61	15	26
62	10	36
63	5	41
64	4	45
65	3	48
66	1	50
	N=50	

Computing D_3 :
We have, $\frac{3N}{10} = \frac{3X50}{10} = 15$
Cumulative frequency just greater than 15 is 26, and the corresponding value of the variable is 61.
Third Decile D_3=61

Computing D_7:
We have, $\frac{7N}{10} = \frac{7x50}{10} = 35$

From the following data compute the values of quartiles.

x_i	58	59	60	61	62	63	64	65	66
f_i	2	3	6	15	10	5	4	3	1

x_i	f_i	C. F.
58	2	2
59	3	5
60	6	11
61	15	26
62	10	36
63	5	41
64	4	45
65	3	48
66	1	50
	N=50	

Computing D_3 :
We have, $\frac{3N}{10} = \frac{3X50}{10} = 15$
Cumulative frequency just greater than 15 is 26, and the corresponding value of the variable is 61.
Third Decile D_3=61

Computing D_7:
We have, $\frac{7N}{10} = \frac{7x50}{10} = 35$
Cumulative frequency just greater than 35 is 41, and the corresponding value of the variable is 64.

From the following data compute the values of quartiles.

x_i	58	59	60	61	62	63	64	65	66
f_i	2	3	6	15	10	5	4	3	1

x_i	f_i	C. F.
58	2	2
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61	15	26
62	10	36
63	5	41
64	4	45
65	3	48
66	1	50
	N=50	

Computing D_3 :
We have, $\frac{3N}{10} = \frac{3X50}{10} = 15$
Cumulative frequency just greater than 15 is 26, and the corresponding value of the variable is 61.
Third Decile D_3=61

Computing D_7:
We have, $\frac{7N}{10} = \frac{7x50}{10} = 35$
Cumulative frequency just greater than 35 is 41, and the corresponding value of the variable is 64.
Seventh decile $D_7 = 64$.