

3. Suppose the following show the data of T-land.

Percentile of income among population	Share of income earned by each group of percentile in 2017
1-20 (20% the poorest)	8
21-40	15
41-60	19
61-80	21
81-100(20% the poorest)	37

(a) Calculate 20:20 ratio.

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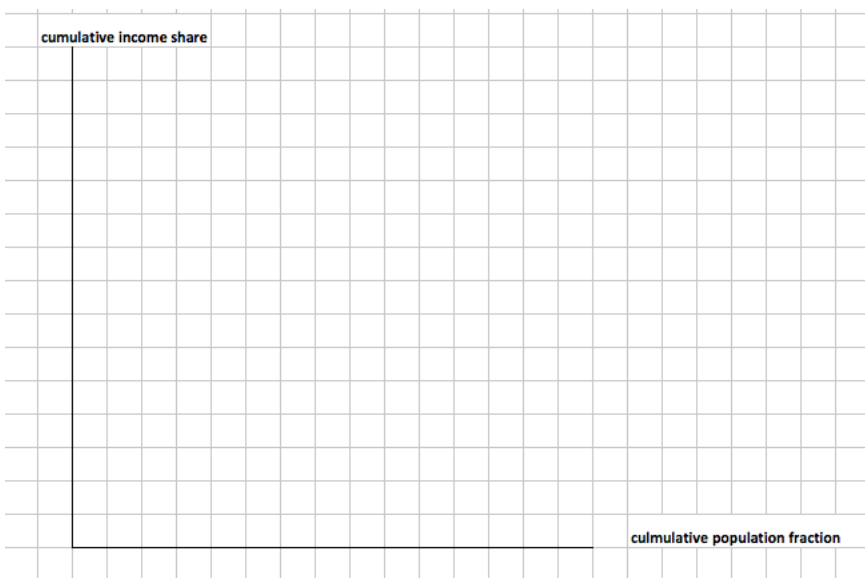
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(b) Plot a Lorenz curve.

Percentile of income among population	Share of income earned by each group of percentile in 2017	Cumulative percentile population fraction	Cumulative income share
1-20 (20% the poorest)	8	20%	
21-40	15	40%	
41-60	19	60%	
61-80	21	80%	
81-100(20% richest)	37	100%	



4. Consider this following data of T-land.

- T-land Gini Coefficient (world bank)

Year	1990	2000	2006	2009
Gini Coefficient	45	46	47	48

Explain how Gini Coefficient is calculated and comment on how equality/inequality in T-land evolves over 1990 - 2009.

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5. Consider this following data of T-land.

Percentile of income among population	Share of income earned by each group of percentile in 2017	Share of income earned by each group of percentile in 1990
1-20 (20% the poorest)	X	7
21-40	15	16
41-60	19	20
61-80	21	22
81-100(20% richest)	37	Y

(a) Find X and Y.

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(b) Calculate 20:20 ratio for 1990 and 2017.

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(c) From (b), comment on how inequality change over 1990 - 2017.

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(d) Comment on disadvantage of the use of 20:20 ratio in measuring inequality.

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6. Example : Suppose T-lannd'squarterly data of for all commercial banks are as follows.

	2017 Quarter 1	2017 Quarter 2	2017 Quarter 3	2017 Quarter 4
1.Assets	34,000	30,020	40,330	50,500
2. Revenue	2,017	2,003	3,002	3,329

State each variable is stock or flow. Calculate the yearly data 2017 for the two variables. Show how to calculate and explain

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