## POPULATION GROWTH: REPRESENTATION BY LINE GRAPH

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## **INTRODUCTION:**

POPULATION GROWTH CAN BE INTERPRETED IN TWO WAYS-ABSOLUTE INCREASE IN POPULATION i.e. YEAR-WISE INCREASE AND GROWTH RATE (CALCULATED IN PERCENTAGE BETWEEN TWO CONSECUTIVE CENSUS YEARS).

**POPULATION GROWTH RATE** IS THE RATE AT WHICH THE NUMBER OF INDIVIDUALS IN A POPULATION INCREASES IN A GIVEN TIME PERIOD. SPECIFICALLY, POPULATION GROWTH RATE REFERS TO THE CHANGE IN POPULATION OVER A UNIT TIME PERIOD, OFTEN EXPRESSED AS A PERCENTAGE OF THE NUMBER OF INDIVIDUALS IN THE POPULATION AT THE BEGINNING OF THAT PERIOD. A POSITIVE GROWTH RATE INDICATES THAT THE POPULATION IS INCREASING, WHILE A NEGATIVE GROWTH RATE INDICATES THAT THE POPULATION IS DECREASING.

CENSUS IS CONDUCTED AT AN INTERVAL OF TEN YEARS, SO THE LATEST CENSUS WAS CONDUCTED IN 2011 AND THE NEXT WOULD BE 2021.

## **CENSUS DATA**

# THE FOLLOWING TABLE SHOWS THE YEAR-WISE INCREASE IN POPULATION OF RANIGANJ

YEAR	POPULATION
1961	30213
1971	40104
1981	51893
1991	61997
2001	111226
2011	129406

NOTE THE CENSUS YEARS

## LINE GRAPH

- LINE GRAPH AS THE NAME SUGGESTS, IS A GRAPHICAL DISPLAY OF INFORMATION THAT CONTINUOUSLY CHANGES OVER TIME. IT HAS TWO AXIS- VERTICAL (Y-AXIS) AND HORIZONTAL (X-AXIS). SUPPOSE YEAR-WISE POPULATION DATA IS TO BE PLOTTED, ON THE X-AXIS, YEAR WILL BE PLOTTED AND ON THE Y-AXIS POPULATION FIGURES ARE PLOTTED.
- THE CENSUS DATA SHOWN CAN BE SIMPLY REPRESENTED WITH THE HELP OF A LINE GRAPH WHICH WILL INDICATE ABSOLUTE INCREASE IN POPULATION

### POPULATION GROWTH REPRESENTED BY LINE GRAPH



### **POPULATION GROWTH RATE: CALCULATION**

YEAR	POPULATION	GROWTHRATE(%)
1961	30213	-
1971	40104	32.7
1981	51893	29.4
1991	61997	19.5
2001	111226	79.4
2011	129406	16.3

POPULATION GROWTH RATE: [(PRESENT YEAR POPULATION-PREVIOUS YEAR POPULATION)/PREVIOUS YEAR POPULATION]\*100

EXAMPLE : IF THE GROWTH RATE IS BEING CALCULATED FOR 1961 AND 1971 THEN, [(40104-30213)/30213]\*100= 32.7%

SINCE THE GROWTH RATE IS CALCULATED FOR A GAP OF TEN YEARS IT IS ALSO KNOWN AS DECADAL GROWTH RATE

#### **POPULATION GROWTH RATE(%) REPRESENTED BY LINE GRAPH**

POPULATION GROWTH RATE (%) RANIGANJ

