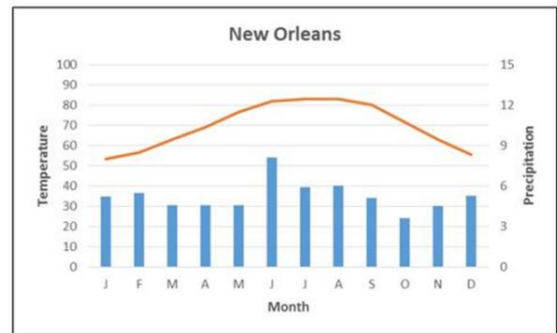# Visualizing Seasons in Monsoon Asia: Climographs

Locate the Sites
1. Locate the cities of of Mumbai (Bombay), Kolkata (Calcutta), and New Delhi on the map of India.
2. Which of these cities do you think might receive the most rain during the year.
3. Examine the "Focus on Monsoons" feature on p. 86 of the Nystrom *World Atlas* and p. 475 of your text.
4. Based on your analysis of the maps, which city is the most likely to have the most rain in the summer months. the summer months.

Create a Climograph
4. Use the provided data to create separate climographs for the temperature and precipitation for **two** of the Indian cities. Temperatures are in Fahrenheit and precipitation is in inches.
5. Remember that different scales are used for temperature and precipitation. You will make a **line graph** for temperature and a **bar graph** for precipitation.
   - The left side of the Y axis (verticalis labeled by **tens** and used for temperature in a **line graph**.
   - The right axis (horizontal)is **labeled by threes** and used for a **bar graph** of precipitation.

Calcutta, India (22˚ N 88˚ E, 16 feet above sea level)

	J	F	M	A	M	J	J	A	S	O	N	D
T	68	73	82	87	88	86	84	84	84	82	75	68
P	.5	1	1	2	5	12	13	13	11	5	.8	.3

Mumbai (Bombay), India (18˚ N 72˚ E, 32 feet above sea level**)**

	J	F	M	A	M	J	J	A	S	O	N	D
T	76	76	80	84	86	84	82	81	81	83	81	78
P	.1	0	0	.1	.6	20	26	15	11	2	.6	.1

New Delhi, India (28˚ N, 77˚ E, 692 feet above sea level**)**

	J	F	M	A	M	J	J	A	S	O	N	D
T	57	62	72	84	91	93	88	86	85	79	69	60
P	.9	.8	.6	.4	.6	3	8	8	5	.7	.1	.4

Reflect
- Which of the three cities is the most affected by the arrival of the monsoons?
- Explain why the temperature drops during the months with the highest amount of rainfall.
- Explain why New Delhi receives less rainfall than Mumbai (Bombay) or Calcutta.
- Why does Mumbai (Bombay) receive more rainfall than Calcutta?
- How does rainfall affect agriculture in India?