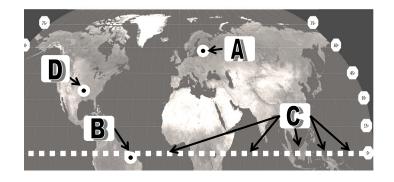
Climate Graphs

Match each place with a letter on the map:

i	The Equator	iii	Forta	leza, Brazil
ii	St. Petersburg	iv	Dallas	s, TX
1	Which place is closer t	to the Equ	ator?	Place A or B
2	Which place would yo	u expect t	o be col	lder? A or B



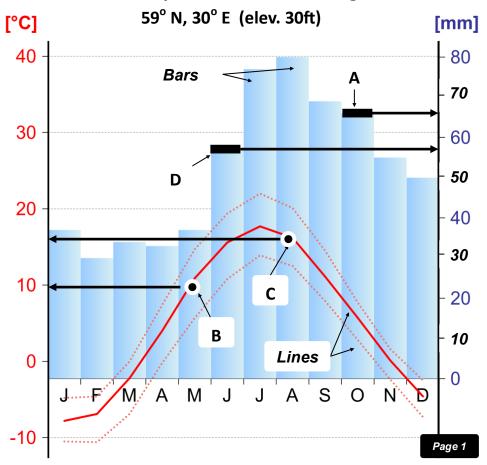
Climate graphs contain both lines and bars. But what do they represent? Examine the climate graph below:

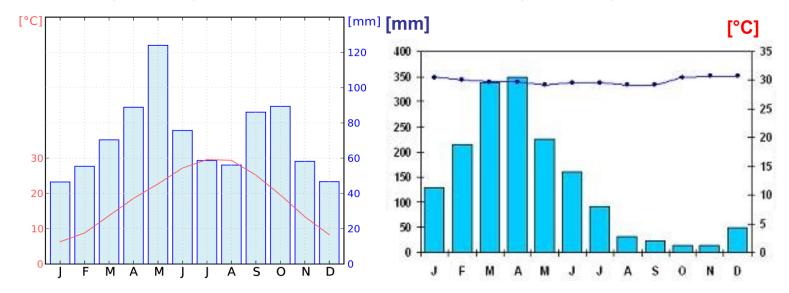
The climate graph for Saint Petersburg, Russia measures					_in degrees Celsius [$^{\circ}$ C] and precipitation in		
	, (mm) of rain,, sleet or si	now.	A. millimeters	B . hail	C. temperature		
3	$_{-}$ Which letter represents 10° C in May.	5	Which letter	represe	ents 66 mm of rain/snow in October.		
4	Which letter represents 16° C in August.	6	Which lette	r represe	ents 57 mm of rain in June.		

7.____ The temperature line for St. Petersburg, Russia drops below 0° Celsius for:

- A. 2 months
- B. 4 months
- C. half of the year
- **8**.____ The letters at the bottom of the climate graph represent:
 - A. The weeks of the year
 - **B**. The months of the year
 - C. The phases of the moon
- **9**.____ The bar for St. Petersburg shows that August gets about:
 - A. 50 centimeters of rain
 - B. 10 millimeters of rain
 - C. 8 centimeters of rain
 - **D**. 70 millimeters of rain

Climate Graph of Saint Petersburg, Russia





Climate Graphs: Their Purpose & Structure

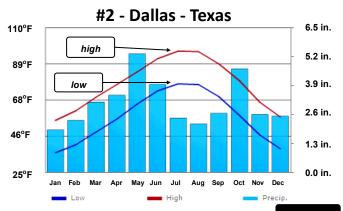
Climate graphs can be _______ to read because they ______ a lot of information.

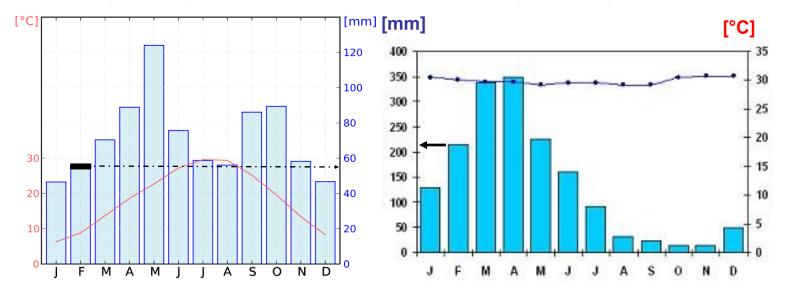
In some ways, all climate graphs are the same. They all show weather ______ that exist for a specific location on the planet. Every _____, the average temperature and amount of precipitation is calculated and ______ by meteorologists globally. This data is then re-calculated with the averages of _____ years' data. By putting all this information on a graph, geographers and other professionals can quickly _____ the climate trends of a place.

When reading a climate graph, the bars on a climate graph always represent the _____ of precipitation a place experiences. The _____ on a climate graph will always represent the average temperature a _____ experiences in a month.

Fill in the Blank: patterns see amount past month line contain tricky recorded place

- **10**. ____ The second climate graph for Dallas is proof that:
 - A. not all climate graphs measure temperature.
 - **B.** climate graphs may use different units for measurements.
- **11**. ____ The units for temperature & rainfall on climate graphs:
 - A. Use Fahrenheit and Celsius for temperature
 - **B.** Use millimeters, centimeters or inches for precipitation
 - C. Change depending on the climate graph
 - D. All of the above





Climate Graphs: How to Interpret Them

Reading a climate graph to interpret it, or figure out what it means, is not always easy. Here's a couple tricks.

As was mentioned, the bars will always represent a place's monthly precipitation: rain, hail, sleet and snow. It is critical to pay attention to which side of the climate graph the temperature and precipitation units are displayed. On the two graphs above, the precipitation units for Dallas appear on the right side of the graph while Fortaleza's are on the left. But the temperature units are flip-flopped with Dallas' temps on the left and Fortaleza's on the right. To read the precipitation bar for February, even though the bar is on the far left side, you need to hold something straight so that you can trace where the bar lines up with the units on the right side.

Sometimes the increments, or amount between numbers, will also be different on one climate graph compared to another. To measure rainfall in Dallas, since it rarely snows, there are ____ millimeters between each line. But for Fortaleza, because it rains so much, there are ____ mm between lines.

- 12. The temp for Fortaleza hovers all year on the Celsius scale near: A. 25 B. 300 C. 35 D. 350 E. 30
- 13. ___ Fortaleza gets the most amount of rain: A. Aug Nov B. Nov Feb C. Feb May D. May—Aug
- 14. ___ Dallas gets its most rain in May, which is a similar amount for Fortaleza in: A. Jan B. Feb C. Mar D. Apr
- **15**. The second climate graph for Dallas shows that:
 - **A**. The least rainfall is in Jan
- **C**. Both A & B
- **B**. The most rainfall is in May
- D. Neither A or B
- **16**. ____ The second climate graph for Dallas shows that:
 - A. The average high in March is higher than the low in July.
 - **B**. The average low in May is higher than the high in January.
 - C. Both A & B are true
 - D. Neither A nor B are true

