

Science Interpretation and Communication

TECHNIQUE 24

- [Technique 22](#) Data Gathering
- [Technique 23](#) Graphing and Charting Data
- [Technique 24](#) Interpret Results

TABLE 1 Degrees Celsius

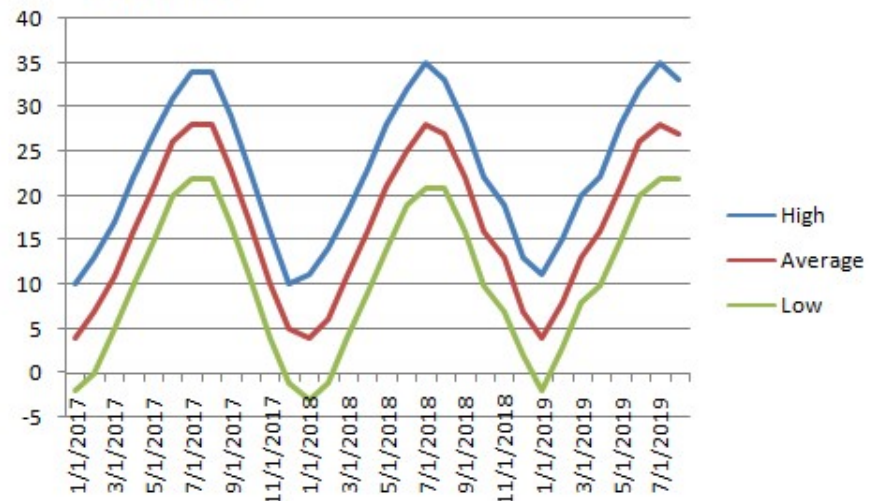
	High	Average	Low
Jan 2017	10	4	-2
Feb 2017	13	7	0
Mar 2017	17	11	5
Apr 2017	22	16	10
May 2017	27	21	15
Jun 2017	31	26	20
Jul 2017	34	28	22
Aug 2017	34	28	22
Sep 2017	29	23	17
Oct 2017	23	17	11
Nov 2017	16	10	4
Dec 2017	10	5	-1
Jan 2018	11	4	-3
Feb 2018	14	6	-1
Mar 2018	18	11	4
Apr 2018	23	16	9
May 2018	28	21	14
Jun 2018	32	25	19
Jul 2018	35	28	21
Aug 2018	33	27	21
Sep 2018	28	22	16
Oct 2018	22	16	10
Nov 2018	19	13	7
Dec 2018	13	7	2
Jan 2019	11	4	-2
Feb 2019	15	8	3
Mar 2019	20	13	8
Apr 2019	22	16	10
May 2019	28	21	15
Jun 2019	32	26	20
Jul 2019	35	28	22
Aug 2019	33	27	22

estimates

The graphic below (**graph 1**), and the table shown on the left (**table 1**) represent Oklahoma high, average, and low temperatures per month.

Keota, OK is usually 1 degree Celsius lower than the overall (state-wide) temperatures in Oklahoma.

GRAPH 1



BASED on information provided, calculate (or, estimate) each item below.
Include a description of the way you calculated/estimated the value.

	Answer	How did you come up with answer?
Typical high temperature in Celsius for Oklahoma in January.		
Typical high temperature in Celsius for Keota in January.		
Typical low temperature in Celsius for Keota in July.		
Difference of temperature in Celsius of Keota's high and low in June.		
Most likely temperature in Celsius of May 13 in the year 2022.		
Average temperature in Celsius on your birthday.		
Difference in temperature in Celsius of the high and low temperatures in May.		
Difference in temperature in Celsius of the high and low temperatures in August.		
Month and year of the lowest temperature shown on GRAPH 1 .		
Month and year of the highest temperature shown on GRAPH 1 .		
Month and year of the highest temperature shown on GRAPH 1 .		
Difference of the high temperature for July 2017 and July 2018 from TABLE 1 .		
Difference of the low temperature for July 2017 and July 2018 from TABLE 1 .		
Which month likely requires the most use of electricity for air conditioning?		
Which month likely requires the most use of energy for heat in a home?		

Convert °C to °F

-30 °C	-22.0 °F
-20 °C	-4.0 °F
-10 °C	14.0 °F
-9 °C	15.8 °F
-8 °C	17.6 °F
-7 °C	19.4 °F
-6 °C	21.2 °F
-5 °C	23.0 °F
-4 °C	24.8 °F
-3 °C	26.6 °F
-2 °C	28.4 °F
-1 °C	30.2 °F
0 °C	32.0 °F
1 °C	33.8 °F
2 °C	35.6 °F
3 °C	37.4 °F
4 °C	39.2 °F
5 °C	41.0 °F
6 °C	42.8 °F
7 °C	44.6 °F
8 °C	46.4 °F
9 °C	48.2 °F
10 °C	50.0 °F
20 °C	68.0 °F
30 °C	86.0 °F
40 °C	104.0 °F

STRATEGIC THINKING

Why is important to keep track of historical temperatures? (30 words)

What would you expect for high/low temperatures in Alaska? Why?

What would you expect for high/low temperatures in California? Why?

In what way does temperature relate to wildlife studied in biology?
