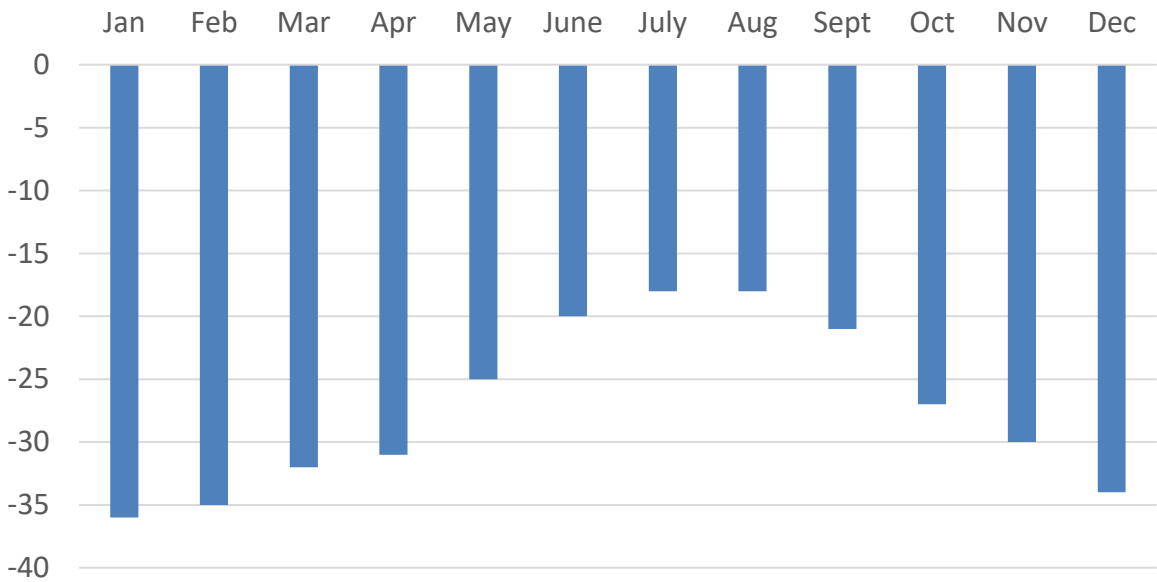


Date: \_\_\_\_\_

LI: To understand the climate of a mountain environment.

Average temperature at the summit of Mount Everest



	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Temp (°C)	-36	-35	-32	-31	-25	-20	-18	-18	-21	-27	-30	-34

Use the information in the graph and table to answer the questions below:

1. What is the average temperature at Everest's summit in November? \_\_\_\_\_
2. What is the average temperature at Everest's summit in March? \_\_\_\_\_
3. Which is the coldest month of the year at Everest's summit? \_\_\_\_\_
4. Which is the warmest month of the year at Everest's summit? \_\_\_\_\_
5. Why do you think it is warmer in June, July and Aug compared to Dec, Jan and Feb?  
\_\_\_\_\_
6. What is the difference in temperature between May and July? \_\_\_\_\_
7. By how far does the temperature drop from August to January? \_\_\_\_\_
8. Tick the **two** statements which are correct:

*It is warmer at Everest's summit in April than March.*

*The winter months are warmer than the summer months.*

*The temperature at Everest's summit is below freezing (0°C) all year.*

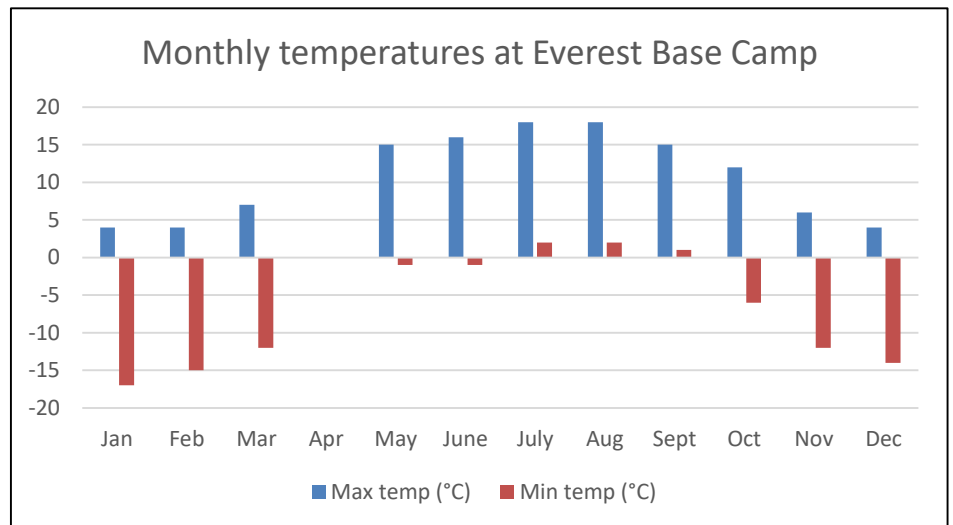
Now look at the temperature data for Everest Base Camp and answer the questions:

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Max (°C)	4	4	7	10	15	16	18	18	15	12	6	4
Min (°C)	-17	-15	-12	-5	-1	-1	2	2	1	-6	-12	-14

Monthly temperatures at Everest Base Camp (EBC):

- Which is the coldest month at Everest Base Camp? \_\_\_\_\_
- Which is the warmest month at Everest Base Camp? \_\_\_\_\_
- What is the difference between the min and max temperature in August? \_\_\_\_\_
- What is the difference between the min and max temperature in January? \_\_\_\_\_

- Draw in bars for the minimum and maximum temperatures in April.



- At what time of day do you think the minimum temperatures were recorded?  
Explain your answer.  
\_\_\_\_\_  
\_\_\_\_\_

- In how many months does the minimum temperature drop below freezing (0°C)? \_\_\_\_\_

- Tick the statement which is **incorrect**:

The maximum temperature in July is the same as August.

Everest Base Camp is coldest in January.

The temperature at Everest Base Camp goes below freezing (0°C) in July.

**Extension:** If you travelled to Mount Everest, what time of year would you go and why?

\_\_\_\_\_  
\_\_\_\_\_

# Answers

## Page 1 – Everest's summit:

1.  $-30^{\circ}\text{C}$
2.  $-32^{\circ}\text{C}$
3. January
4. July and August
5. June, July and August are warmer because they are the summer months. December, January and February are colder winter months.
6.  $7^{\circ}\text{C}$
7.  $18^{\circ}\text{C}$
8. Statement 1 and 3 are correct.

## Page 2 – Everest Base Camp:

1. January has the lowest max and min temperatures.
2. July and August
3.  $16^{\circ}\text{C}$
4.  $21^{\circ}\text{C}$
5. Max  $10^{\circ}\text{C}$  and min  $-5^{\circ}\text{C}$
6. The minimum temperatures occurred at night.
7. 9 months (all except July, August and September)
8. Statement 3 is incorrect.

### **Extension:**

The most logical answer would be to go in the months of July, August and September because this is the warmest time of year to go.