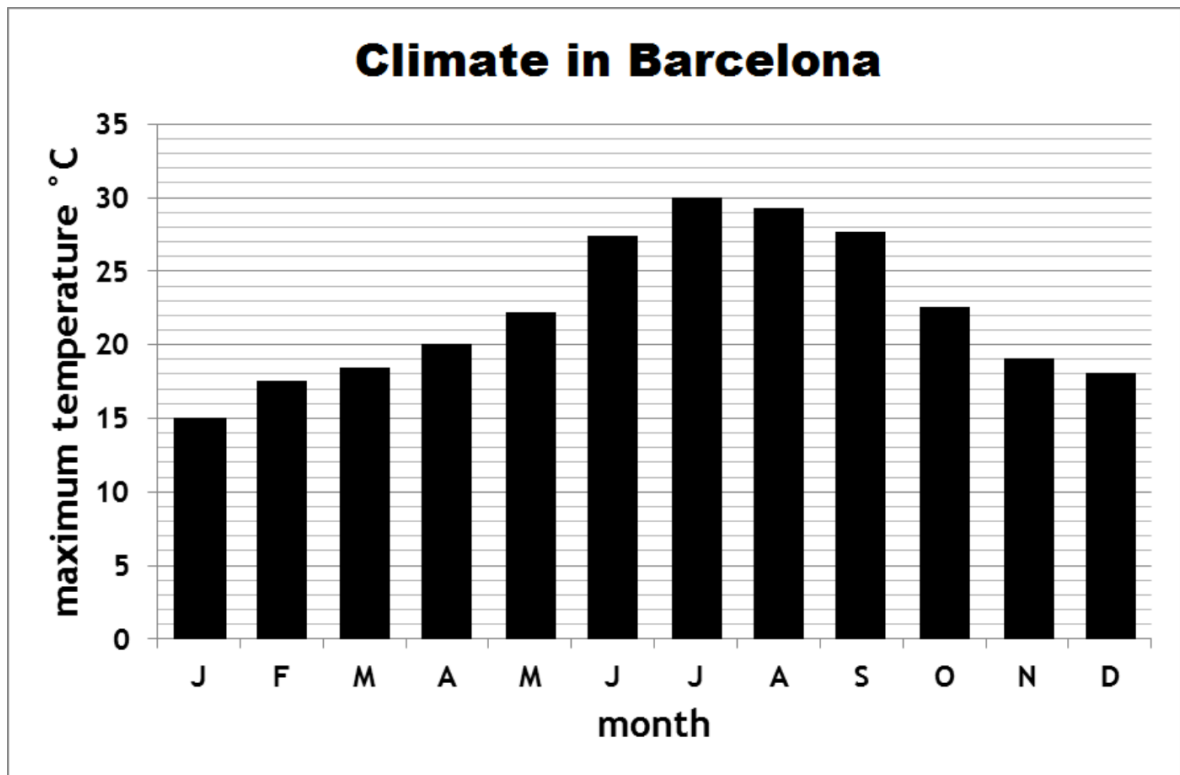


National 3 - Homework Exercise 3 Name:

1. Below is a graph of maximum monthly temperatures in Barcelona.



a) Which month has the highest temperature?

b) Anne wants to go jogging while she is on holiday in Barcelona. She won't go jogging if the temperature is over 25°C. Which months should she avoid going on holiday?

c) What is the difference in maximum temperatures in July and January?

d) (i) How many months have a maximum temperature under 20°C?

(ii) What **fraction** of the months of the year have a maximum temperature under 20°C?

2. A company that does bungee jumping at the Titan Crane in Glasgow won't let anyone jump if there is high chance of strong winds. The BBC weather report says there is an 82% chance of strong winds. Is it likely that the company will let people bungee jump? Give a reason for your answer.
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3. Part of the bus timetable for Stockport to Bolton is shown below.

	Stockport Depart	Bolton arrive	Bolton depart	Stockport Arrive
Mon - Sat	0600	0805	0815	1030
	1050	1305	0915	1130
	1150	1405	1315	1530
	1450	1730	1415	1730
	1650	1925	1745	2000
Sat only	0725	0930	1815	2130
Sun	0800	0950	0915	1130
	1045	1245	1330	1530
	1515	1715	1645	1845

- a) How many times does the bus leave Bolton on a Sunday?
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- b) The bus leaves Bolton at 0915. What time does it arrive in Stockport?
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- c) Ali wanted to get the 0600 bus from Stockport to Bolton. She arrived 20 minutes late. How long will she have to wait on the next bus?
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4. The pie chart is divided into 20 equal parts.

60 people answered which food they preferred.

- a) What percentage preferred kfc?
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- b) How many people preferred hot dogs?
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