

Collins Assignment

Algebra 1, 1st Quarter

You and your family are planning a trip to the Australian area for the Thanksgiving holiday. You did some research on the internet and found the current temperature for the cities listed in the chart on the back of this sheet. The problem is that the temperature is given in Celsius, and not good old Fahrenheit which is what is commonly used in the United States.

You know that the formula for converting Fahrenheit into Celsius is given by $C = \frac{5}{9}(F - 32)$, but what you don't know yet is how to take the numbers in the chart and convert them into Fahrenheit so that you'll have a better understanding of the current temperature.


























- Your assignment is this.
- 1) Rearrange the conversion formula so that F is a function of C. (FCA # 1 worth 60 points)
Show work!!
 - 2) Convert each of the numbers below into °F (FCA # 2 worth 30 points)
 - 3) State one of the locations that you want to visit based on your findings. (FCA # 3 worth 10 points. Include specific data found to back up your selection, and state briefly why you chose that city. (at least 2 solid reasons)

For extra credit (worth 15 points) create a new chart that has both types of temperatures displayed on it so that there won't be any confusion about what the actual temperature is. Extra credits that look nice and are accurate will be displayed in the classroom.

This counts as a quiz grade !! This assignment is expected to be done in the Collins format and completed and passed in no later than the beginning of class the next day that the class meets. **No late assignments will be accepted !!!**

All scrap work, brainstorming, rough drafts and such should also be passed in along with the finished copy.

Local weather in Australia/Pacific

Australia - Australian Capital Territory - Canberra	 21°C	Marshall Islands - Majuro	 N/A
Australia - Cocos and Keeling Islands - Bantam	 26°C	Micronesia - Ponape - Kolonia	 32°C
Australia - New South Wales - Sydney	 26°C	Micronesia - Ponape - Palikir	 32°C
Australia - Norfolk Island - Kingston	 21°C	New Zealand - Auckland	 18°C
Australia - Northern Territory - Darwin	 31°C	New Zealand - Christchurch	 24°C
Australia - Queensland - Brisbane	 26°C	New Zealand - Wellington	 17°C
Australia - South Australia - Adelaide	 18°C	Niue - Alofi	 25°C
Australia - Tasmania - Hobart	 19°C	Palau - Koror	 29°C
Australia - Victoria - Melbourne	 21°C	Papua New Guinea - Port Moresby	 31°C
Australia - Western Australia - Perth	 18°C	Samoa - Apia	 29°C
Cook Islands - Rarotonga	 28°C	Solomon Islands - Honiara	 32°C
Fiji - Suva	 27°C	Tonga - Nukualofa	 24°C
France - New Caledonia - Noumea	 27°C	Tuvalu - Funafuti	 30°C
France - Tahiti - Papeete	 29°C	U.S.A. - American Samoa - Pago Pago	 29°C