

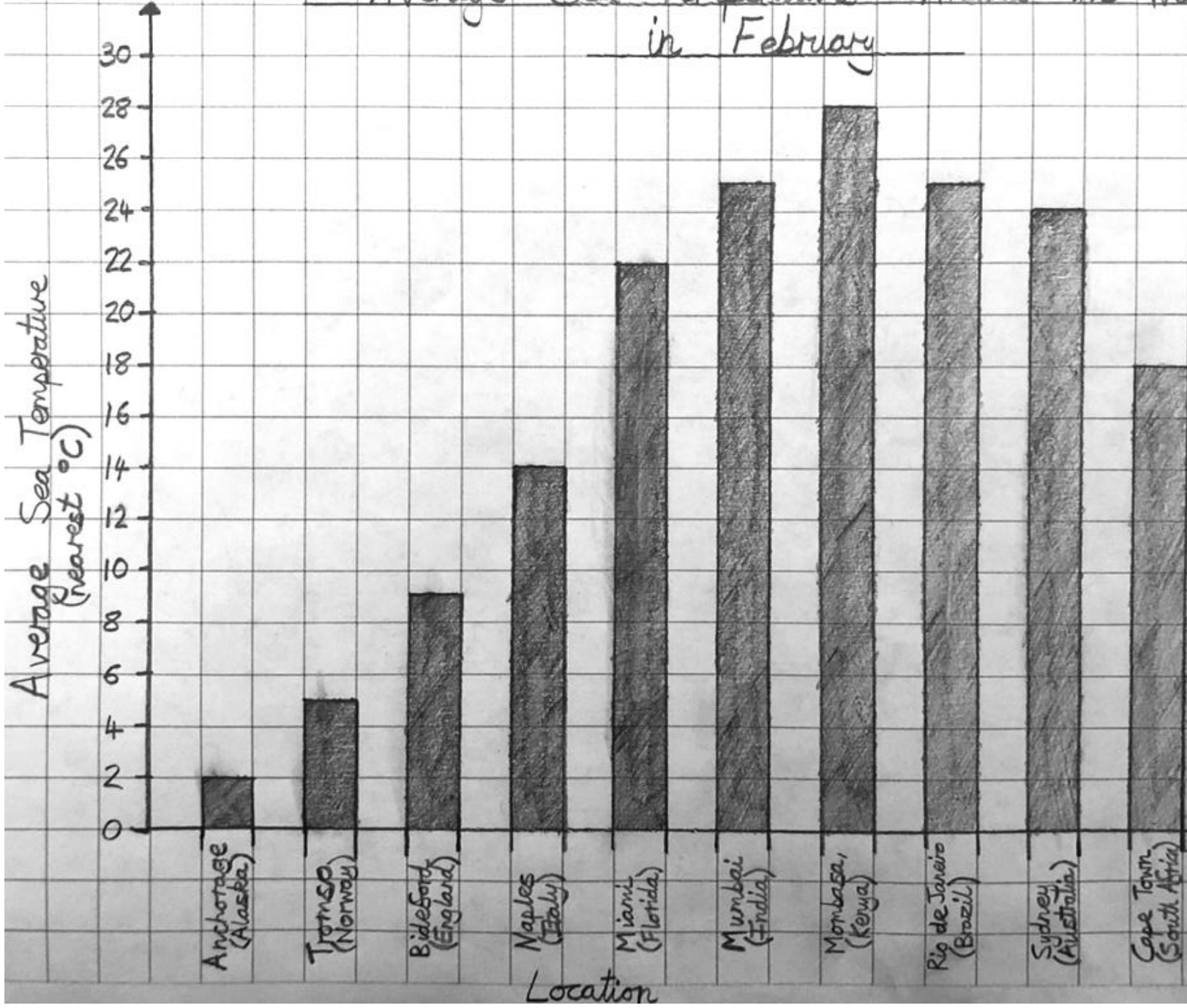
Average Sea Temperature Around the World

This table shows information about the average temperature of the sea in different locations around the world during February and August.

1. Use the graph to fill in the blanks for the 'Average Temperature in February' column. Make sure you read the scale carefully.
2. Find the difference between the average temperatures in February and August for each location. The first one has been done for you.
3. Answer the questions on the next page using the graph and the table to help you. Then create some questions of your own. You can send your own questions to me via email or the Class blog and I'll see if I can answer them!
4. Using the graph as a guide, draw another graph - this time to show the Average Sea Temperatures Around the World in August (the column highlighted in grey). Don't forget to label each axis and to give your graph a title!

| Location | Average Temperature in February (nearest °C) | Average Temperature in August (nearest °C) | Difference in Average Temperature (°C) |
|---------------------------|---|---|---|
| Anchorage, Alaska (USA) | 2 | 11 | $11 - 2 = 9$ |
| Tromsø, (Norway) | 5 | 11 | |
| Bideford, (England) | | 17 | |
| Naples, (Italy) | 14 | 26 | |
| Miami, Florida (USA) | | 30 | |
| Mumbai, (India) | 25 | 28 | |
| Mombasa, (Kenya) | 28 | 25 | |
| Rio de Janeiro, (Brazil) | 25 | 22 | |
| Sydney, (Australia) | | 19 | |
| Cape Town, (South Africa) | 18 | 15 | |

Average Sea Temperatures Around the World in February



Average Sea Temperature Around the World - Questions

Here are some questions for you to answer based on the table and graph about average sea temperatures.

1. Which 2 locations have the same average sea temperature in February? What is this temperature?
2. Which location has the highest average sea temperature in February?
3. What is the average sea temperature in Cape Town (South Africa) in February?
4. In February, how much warmer is the sea in Mumbai than in Naples?
5. In February, how much colder is the sea in Tromsø than in Mombasa?
6. In August, which location has the lowest average sea temperature?
7. What is the average sea temperature in Anchorage, Alaska, in August?
8. In August, the combined average temperature of 2 locations is 41°C. Which locations could this be?
9. In August, how much warmer is the sea in Rio de Janeiro than in Bideford?
10. Across both February and August, what is the most common (mode) average sea temperature?

When you have finished the WHOLE challenge:

Find out where all of these locations are and mark them with small numbers (1-10) on your maps from last week.

- Do you notice any patterns in the temperatures in the graphs?
- Where was in the world was the sea the hottest in February? What about in August?
- Can you name another country that you think might have a similar average sea temperature to one on your graph?