

YEAR 10 GEOGRAPHY EXTENSION BOOKLET

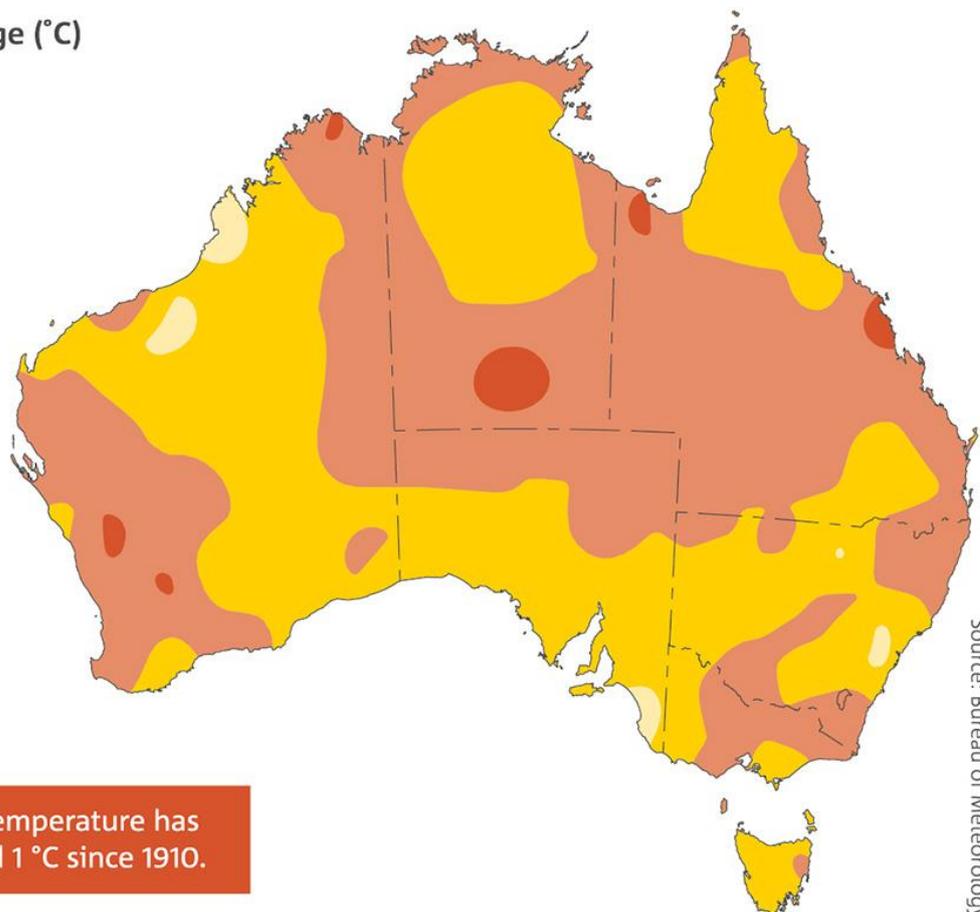
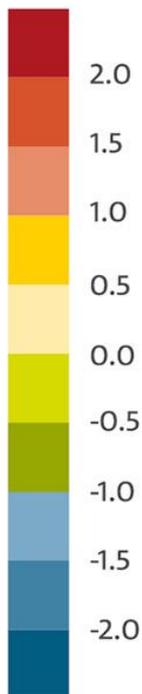
Climate Change

Name:

Class:

ALL ABOUT DATA

Temperature change (°C)



Source: Bureau of Meteorology

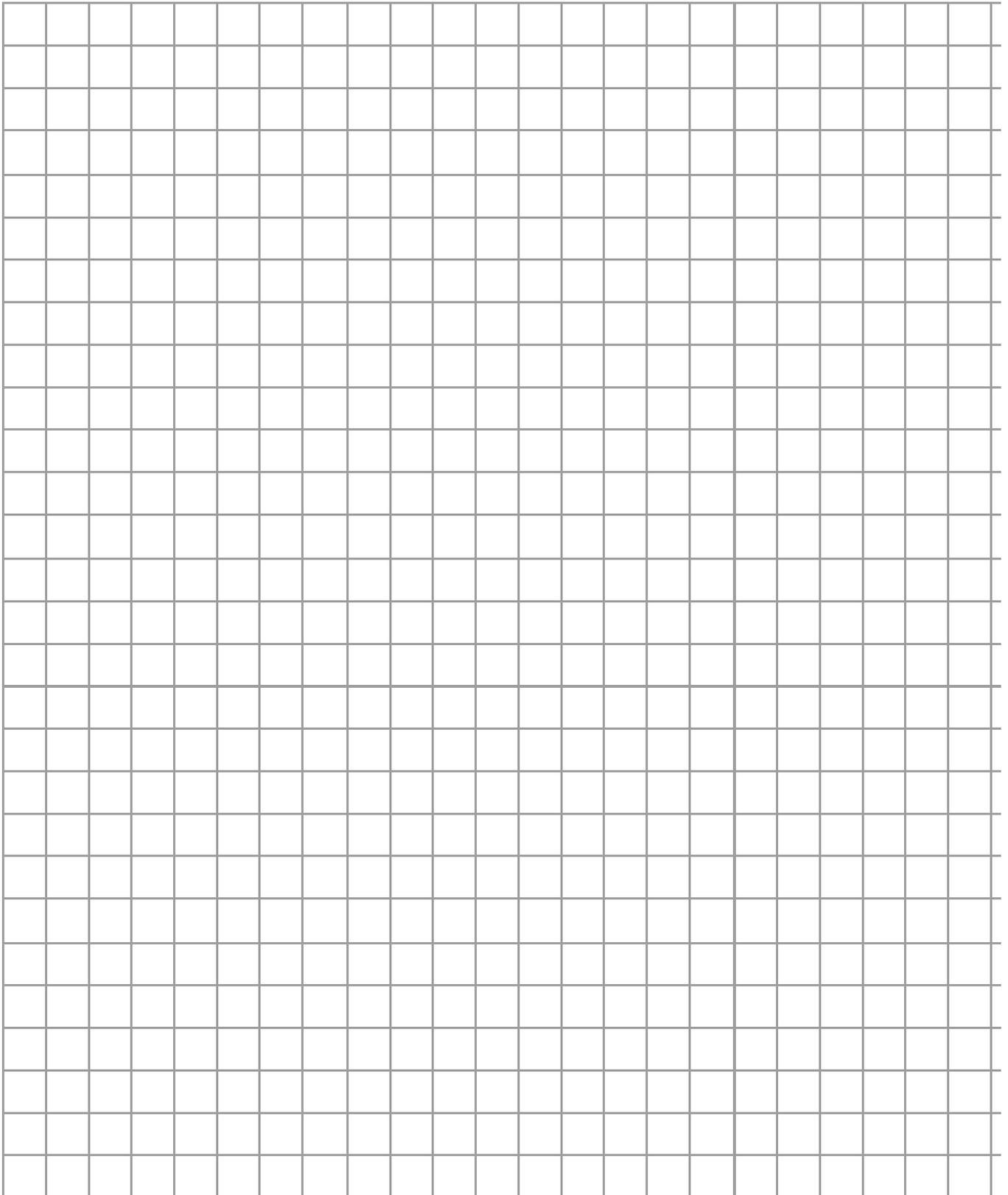
Australia's mean temperature has warmed by around 1 °C since 1910.

1. Which state is experiencing the biggest increase in temperature?
2. Which state is experiencing the least increase in temperature?
3. How do you think they produced these results?

4. What would be a good title for this graphic?
5. Who might use this graphic?

Country	CO ₂ emissions ^[14]	Emission / Person
World	33,508,901	49
 China	8,240,958	62
 United States	5,492,170	176
 India	2,069,738	17
 Russia	1,688,688	118

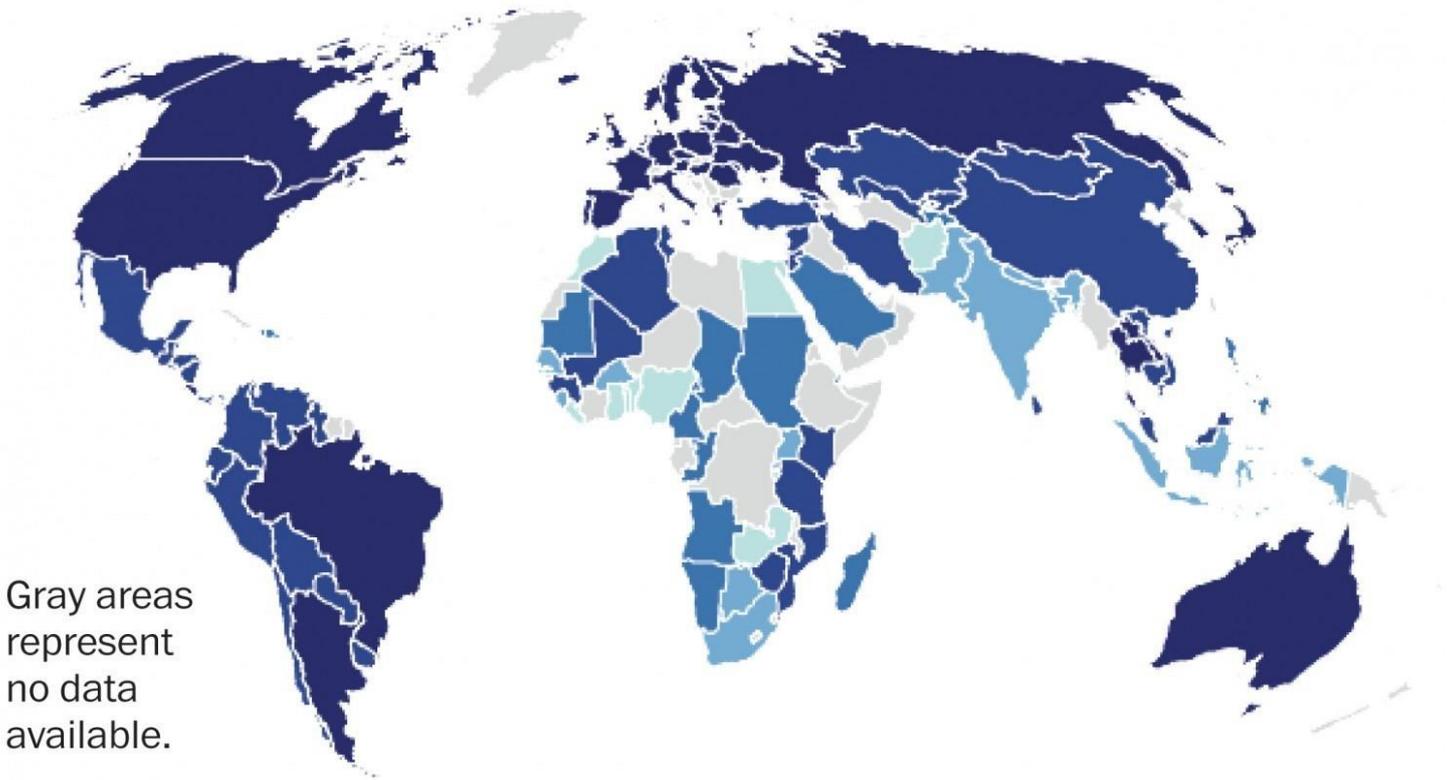
- choose the most appropriate graph type (there is a correct type) and graph the data from the data table. Make sure you include a title and label both axes



MAP STUDY

Public awareness of climate change

● More than 75% ● 50 - 75% ● 40 - 49% ● 30 - 39% ● Less than 30%



Based on data from the Gallup World Poll conducted in 2007 and 2008, from nationally representative samples in 119 countries.

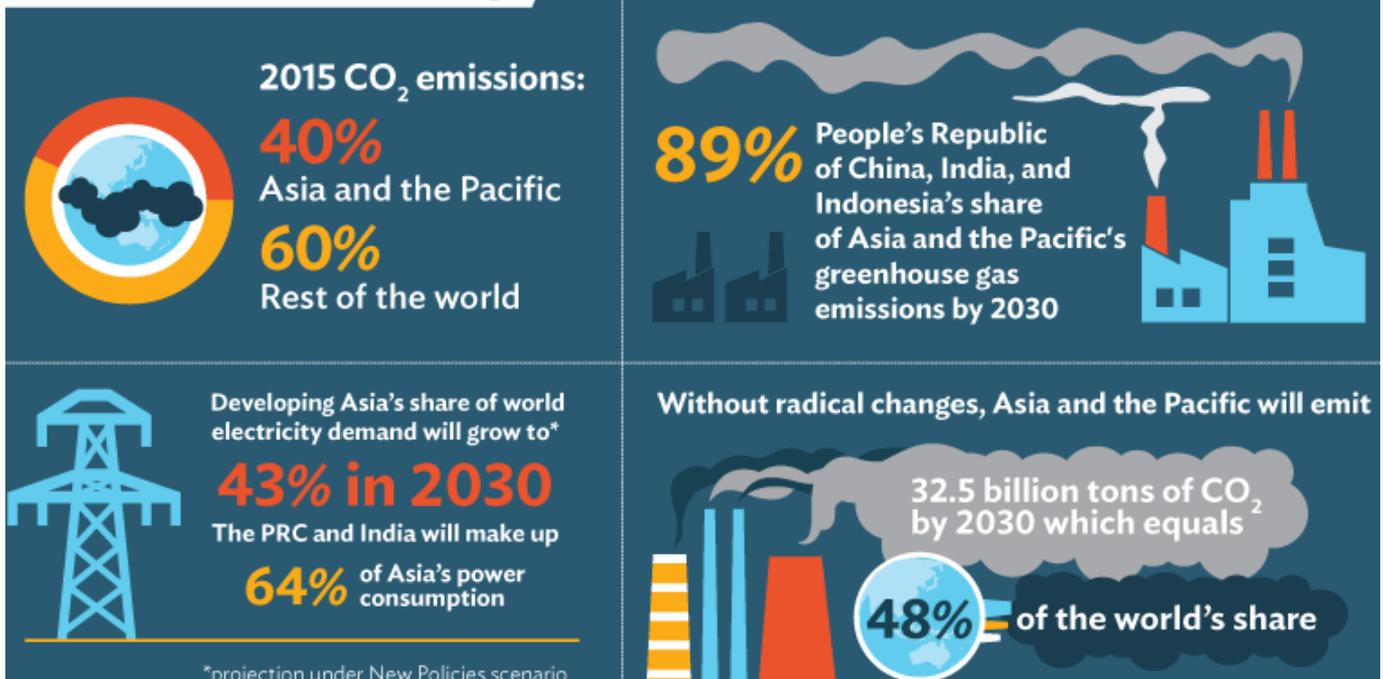
Source: Nature Climate Change

THE WASHINGTON POST

- 1. How many countries are there in Africa?**
- 2. Why do you think some countries have no data?**
- 3. Rank the continents from top to bottom in terms of their awareness of climate change.**
- 4. What survey question do you think they asked to get this information?**
- 5. What elements of BOLTSS are missing?**
- 6. Why do you think they don't have all the elements of BOLTSS in this map?**

WHAT SHOULD WE DO?

Asia and the Pacific is key



Referring directly to information from the infographic, list three reasons the Asia/Pacific region is 'key' to dealing with climate change:

- 1.
- 2.
- 3.

Suggest one 'radical change' the Asia/Pacific could make to reduce their pollution. Also suggest some problems that you foresee with your suggested solution and how these might be overcome

Solution:

Possible problem with solution and how this might be overcome:

INCREASING YOUR WORD POWER

Find out what these words mean, and make up a paragraph or two that uses them all correctly:



- emissions
- greenhouse gas
- UNFCCC
- IPCC
- mitigation
- solar radiation
- water vapour
- greenhouse effect
- adaptation
- pollutant

WHO KNOWS?

Find two different theories about the best way to remove carbon dioxide from the atmosphere and summarise them in 1-2 sentences. Include a full Harvard-style bibliography reference for each information source you use. Remember that Harvard-style is:

Website: Author surname, Author initial(s), Year, *Title of webpage*, viewed [insert date], www.nameofwebsite.com

Book: Author surname, Author initial(s), Year, *Title of book*, publisher, where published

Theory #1

Theory #2

Bibliography

WHAT'S THE *RIGHT* THING TO DO?

Here are three ethical dilemmas about climate change:

1. Industrial nations have historically created most of the pollution, as they had factories for many years before developing nations did. However, now *all* nations are needed to reduce pollution to slow climate change. What should the responsibility of different groups of countries be?
2. Many people have taken individual actions to try and reduce their carbon footprint (amount of pollution they are responsible for producing). However, some have suggested that there will never be enough environmentally conscious consumers for individual actions to make enough of a difference. How can we proceed to ensure enough action is taken?
3. Some have suggested that human population is too high, and this is a major reason for climate change. So it has been suggested there should be limits on family sizes. However, individuals from rich countries produce much higher emissions per person than people from poorer countries. What is the right way to proceed?

Pick one of these topics and write a short persuasive paragraph arguing for your position. Make sure to include a topic sentence, 4-5 sentences of persuasion (including evidence, not just opinion), and a concluding sentence.

