

91429



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

QUALIFY FOR THE FUTURE WORLD
KIA NOHO TAKATŪ KI TŌ ĀMUA AO!

3

SUPERVISOR'S USE ONLY

Level 3 Geography, 2018

91429 Demonstrate understanding of a given environment(s) through selection and application of geographic concepts and skills

9.30 a.m. Friday 23 November 2018
Credits: Four

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate understanding of a given environment(s) through selection and application of geographic concepts and skills.	Demonstrate in-depth understanding of a given environment(s) through selection and application of geographic concepts and skills.	Demonstrate comprehensive understanding of a given environment(s) through selection and application of geographic concepts and skills.

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should attempt ALL the questions in this booklet.

Pull out Resource Booklet 91429R from the centre of this booklet.

If you need more room for any answer, use the extra space provided at the back of this booklet.

Check that this booklet has pages 2–11 in the correct order and that none of these pages is blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

Achievement

TOTAL

11

ASSESSOR'S USE ONLY

INSTRUCTIONS

Read the resource booklet and the questions in this booklet before you begin your written answers.

Select and apply a range of geographic skills to comprehensively analyse the various geographic concepts as they apply to Greenland.

QUESTION ONE: GREENLAND'S ENVIRONMENT

Refer to **Resources A–E** on pages 3–7 of the resource booklet when answering this question.

- (a) Describe in detail Greenland's natural environment.

Select and apply a range of geographic skills to support your answer.

Due to Greenland lying in the North-Atlantic Ocean. It has an ice sheet, with a thickness of 1500 metres and covers over $\frac{4}{5}$ of Greenland's total land area. Due to Greenland being in the Atlantic Ocean the climate is classified as Arctic. There are also large areas that are classified as Arctic deserts due to their limited precipitation. Permafrost is mostly present in the Northern parts where there ~~are~~ is no ice sheet. Greenland is also rich in minerals, this is due to the parts of the country that haven't been explored.

- (b) Comprehensively explain how the natural environment influences the cultural environment of Greenland.

ASSESSOR'S
USE ONLY

The natural environment influences the cultural environment of Greenland as the economy of Greenland has been based on fishing. However due to ~~the~~ ~~to~~ ~~of~~ over fishing and fluctuating prices they brought in the tourist industry in 1990. This was influenced by the natural environment as the tourists came to experience whale watching and to see fjords and icebergs.

The natural environment also influences the cultural environment as the agriculture sector employs nearly ~~more~~ half of the work force. However, the agriculture is only possible on about 11% of Greenland's total area, which are in the southern ice-free regions. This is influenced by the natural environment as it all depends on the ice-free regions but ~~it's~~ ~~its~~ the natural environment is also ~~pro~~ providing jobs which will be boosting the economy of ~~the~~ Greenland.

A4

QUESTION TWO: POTENTIAL FOR MINING

Refer to **Resource F** on page 7 of the resource booklet when answering this question.

(a) Identify the top THREE industries/areas of employment in 2015 as shown in Figure 10.

- (1) Public administration & service
- (2) Wholesale & Business activities
- (3) Fishing, hunting & agriculture

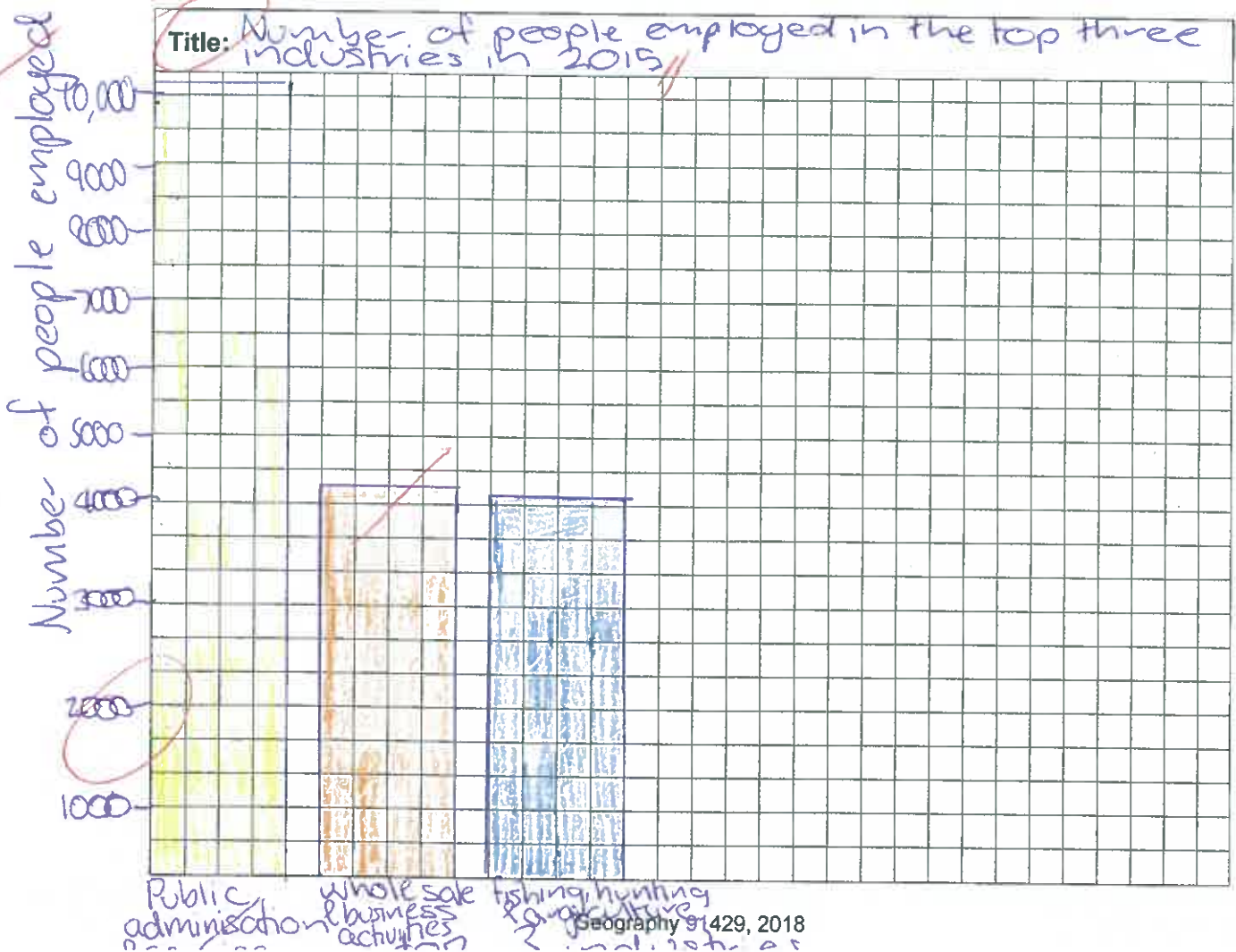
(b) Calculate the percentage of people who were employed in mining and quarrying in 2015. You may use the space below for any calculation required.

Percentage:

$$\frac{124 - \text{total employed}}{25620 - 124}$$

(c) Construct the most appropriate graph to show how many people were employed in the top three industries in 2015.

Use correct graphing conventions in your answer.



- (d) Referring to your responses to parts (a), (b) and (c), and using **Resources G–K** on pages 8–11 of the resource booklet, comprehensively analyse two different perspectives on the potential for mining in Greenland.

Perspectives may include, but are not limited to: economic, environmental, social, indigenous, and political.

The first perspective is the political perspective. ~~This~~ The first female prime minister, Aaleqa Hammond overturned a 25 year old ban on mining ~~saying~~ stating that she doesn't want to be a victim of climate change. The government believe that mining in Greenland would be beneficial as it would bring in more employment which would help the economy.

The second perspective is the environmental perspective. This is a very important perspective as it suggests that by allowing to mine in Greenland it will speed up the process of climate change. A teacher says "Climate change has had a really harmful influence on people's ~~the~~ lives." This is true as it shows that by allowing people to mine it would be more harmful to people's lives and it would also speed up the process of the ice sheet melting.

QUESTION THREE: THE FUTURE FOR GREENLAND

Refer to **Resources A–K** on pages 3–11 of the resource booklet when answering this question.

If the Greenland ice sheet continues to melt at the current rate, there could be significant consequences for Greenland's people, economy, and environment.

Discuss the following statement and make a justified recommendation about the best option for Greenland's future:

Greenland must embrace the opportunities for uranium mining.

Refer to at least one of the geographic concepts on page 2 of the resource booklet and specific information from the other resources to support your answer.

Greenland should not embrace the opportunities for uranium mining as it would have many negative effects on the natural environment. The mining of uranium would extract most of the nutrients out of the soil, which would then have great effect on the economy for the country. It would also have a negative effect on the ice sheet that covers $\frac{2}{3}$ of Greenland. By mining the speed that the ice sheet would melt would quicken drastically due to the ~~amount~~ added chemicals being pumped into the atmosphere. Mining would also have big impacts on the tourist numbers, as they only travel to Greenland to see the untouched natural environment and to see the ice sheet. The mining would change the way tourists see the country and won't want to travel. This would have negative impacts on the economy of Greenland. I can also see why the government think that Greenland

should embrace the opportunity for uranium mining, as it would bring in around 2000 job opportunities for people and for a country that only has 57,000 people living there, it would help ~~boost~~ ~~the~~ economy of Greenland, whilst providing a lot of people with jobs.

~~The~~ Greenland also wouldn't have to rely on ~~the~~ Denmark to make up half of Greenland's ~~the~~ budget to spend on social welfare, ~~and~~ education and healthcare. ~~By~~ By mining it would mean that they could bring full independence from Denmark.

There are positives and negatives about embracing the ~~opportunities~~ opportunity for uranium mining. However - the ~~right~~ thing to do for the natural environment is to not mine and to leave the land untouched. Although this wouldn't boost the economy or help bring independence, it would be ~~keeping~~ keeping the natural environment the same and it would mean that not changing the environment means that future generations would be able to view the ice sheet and the true beauty of Greenland.

A4

Achievement Exemplar 2018

Subject	Geography	Standard	91429	Total score	11
Q	Grade score	Annotation			
1	A4	The candidate provides enough description and explanation but does not support either part a or part b with enough specific detail to reach M5.			
2	A3	This response does not fully analyse the political perspective, largely referring to economics and weakly analyses the environmental perspective.			
3	A4	This answer discusses the opportunities for mining and justifies their recommendation but does not use enough specifics from the resources to reach M5.			