TEACHERS WITHOUT BORDERS PROGRAMME

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In Bill Gates words, at the Mandela Day 'Living Together' address: "Maintaining the quality of this country's higher education system while expanding access to more students will not be easy. But it's critical to South Africa's future" – working together, we can help achieve this."

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Herzlia High	Rondebosch Boys'	St Mary's DSG Kloof	Wynberg Secondary

Name: _____   Form A: _____

Grade 8   **GEOGRAPHY**   November 2017

Time: 2 hours   Marks: 100

_____

Instructions

- This exam paper consists of 4 questions. You must only answer **THREE** questions.
- Questions **1** and **4** are compulsory.
- Start new questions on a new page.
- Number all questions as they are numbered in the question paper.
- You may use a calculator.
- Do not use correction fluid. Rule a line through your mistakes.

1		**4**
	………………………	

Fill in Question Choice: 2 or 3

Question 1: Mapwork

This question is to be answered **on the question paper**. Detach this page and **staple it to the FRONT** of your script.

1.1   Complete the following sentences by filling in the missing words. Only one word is required for each answer.

A _____map uses different colours (or symbols) to show the relief of the land.   (1)

A Geographic_____ System is a combination of databases and mapping software.   (1)

Scale is a _____ between a length on a map and the length on the ground that it shows.   (1)

1.2   What features found on a topographic map are represented by the signs/symbols below: (4x1=4)

Sign/Symbol	Feature
(blue)	
(blue)	
(red)	
P	

Refer to Figure 1 on page 3 and answer the questions that follow.

1.3   What is the direction and bearing **from Simon's Town** (**D2**) **to**:   (4x2=8)

        (NB use the centre of the ● as the starting and ending point)

	DIRECTION	BEARING
Somerset West (C4)		
Robben Island (A1)		

1.4   Write 1:250 000 as a word scale.   (3x1=3)

_____

1.5   Using the scale **1:250 000**, calculate the distance in **km** from **Hout Bay (C1)** to **Stellenbosch (B4)**

        (NB use the centre of the ● as the starting and ending point):   (4x1=4)

_____

_____

_____

_____

1.6   Give the co-ordinates (**degrees and minutes**) of the following towns **(NB use centre of the ●)**

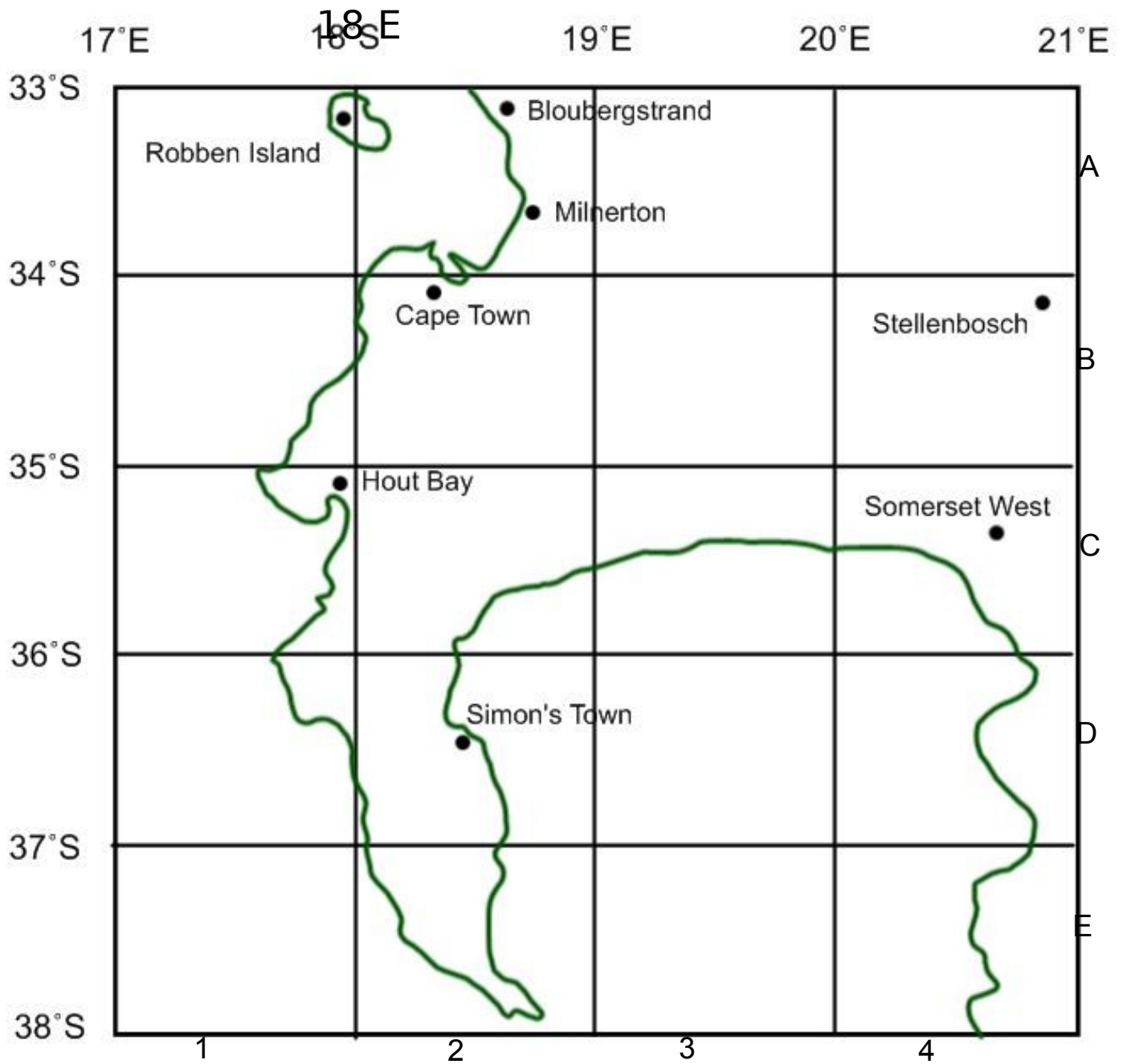   (2x4=8)

Milnerton (A2)	
Somerset West (C4)	

Total for Question 1 = 30

PLEASE REMOVE AND STAPLE THIS SECTION TO THE FRONT OF YOUR ANSWER SCRIPT.
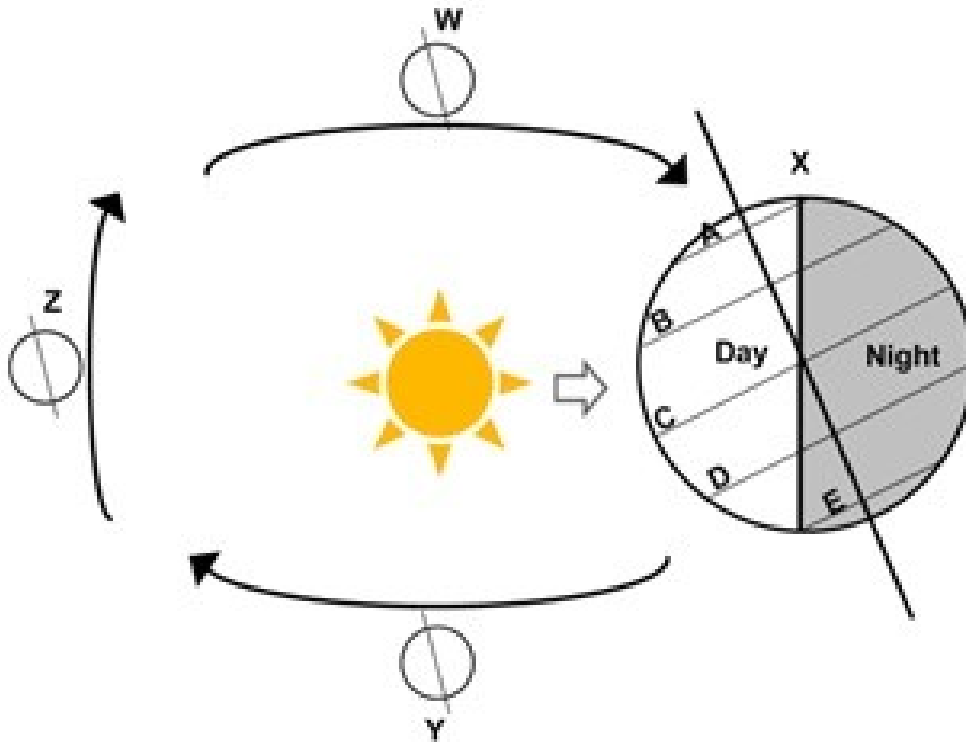
Figure 1

Scale 1:250 000

Question 2: Maps, Globes and Climate Regions

2.1   State whether the following sentences are **TRUE** or **FALSE**.

2.1.1   Precipitation is anything falling from the atmosphere.

2.1.2   A wind vane is used to determine the direction of the wind.

2.1.3   The Rocky Mountain Range blocks cold polar air from reaching the centre of the USA.

2.1.4   Lines of latitude are also known as perpendiculars.

2.1.5   South facing slopes are cooler than north facing slopes in the southern hemisphere.

(5x1) **[5]**

2.2   Study the diagram below showing the earth's path and answer the questions that follow.

2.2.1   What season is the southern hemisphere experiencing at **X**?   (1)

2.2.2   Give ONE reason for your answer to question 2.2.1.   (1x1=1)

2.2.3   Choose the correct letter A, B, C, D or E from the diagram, which best suits the captions below. (3x1=3)

2.2.3.1   Tropic of Cancer

2.2.3.2   Equator

2.2.3.3   Arctic Circle

2.2.4   What date is the spring equinox in the southern hemisphere?   (1)

2.2.5   A combination of factors cause seasons. State three of them.   (3x2=6)

[12]

2.3   Study the table below and answer the questions that follow.

	LATITUDE	JAN. TEMP.	JULY TEMP.	TEMP. RANGE	DISTANCE FROM THE SEA
MAHIKENG	25°S	30°C	17°C	23°C	780 KM
PORT NOLLOTH	30°S	18°C	12°C	6°C	5 KM
DURBAN	30°S	28°C	21°C	7°C	5 KM
MOSCOW	51°N	-7°C	18°C	2.3.3	2000 KM

2.3.1   Why does Mahikeng have a greater temperature range than Durban?   (2x1=2)

2.3.2   Explain why the temperatures of Port Nolloth (west coast of South Africa) are so much lower than Durban (east coast of South Africa).   (2x1=2)

2.3.3   Calculate Moscow's temperature range?   (1x2=2)

2.3.4   Explain why Durban receives a lot more rainfall than Port Nolloth.   (3x1=3)

2.3.5   What is the definition of the temperature range?   (2x1=2)

                    [11]

2.4   Fill in the correct words in the sentences below. Write down the letter then the answer e.g. (d) eclipse:

2.4.1   Weather is the ………..(a)……….. conditions at a particular place and time. These conditions can change ………(b)………..

                    [2]

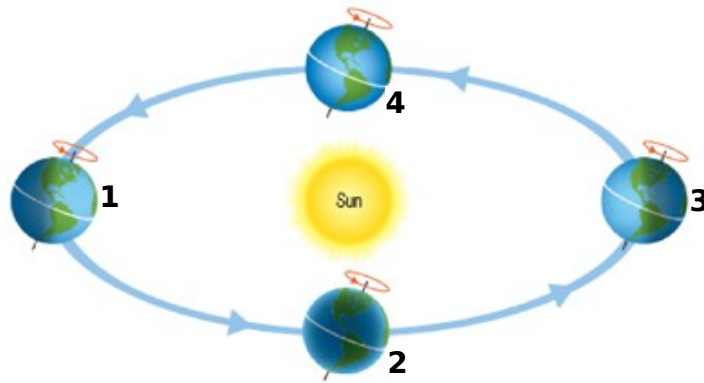   **Total for Question 2 = 30**

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° **NB**. Answer **EITHER** question 2 **OR** question 3

</div>

Question 3: Maps, Globes and Climate Regions

3.1   State whether the following sentences are **TRUE** or **FALSE**.

3.1.1   The earth is represented as a globe because it is oval in shape.

3.1.2   The mean annual temperature is the average maximum and minimum temperatures for every day in the year over a period of many years.

3.1.3   A wet-dry thermometer is used to measure air pressure.

3.1.4   The earth's axis is tilted at 23.5° from the perpendicular.

3.1.5   The earth's time zones are related to the lines of latitude.

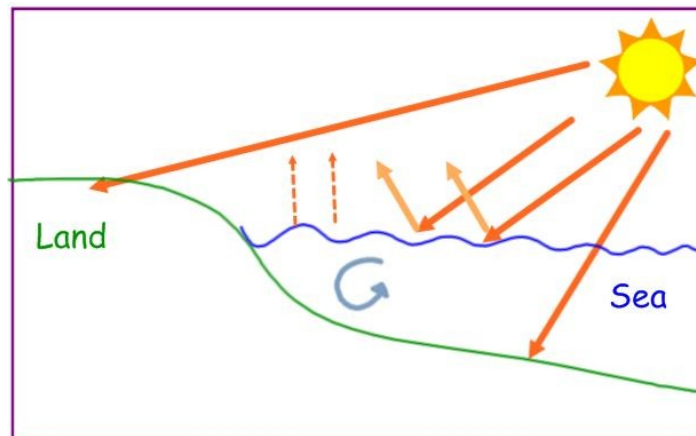   (5x1) **[5]**

3.2. Study the diagram below and answer the questions that follow.

3.2.1   What is the name of the earth's path around the sun?   (1)

3.2.2   How long does it take to complete that path once?   (1)

3.2.3   Referring to the diagram explain the difference between **rotation** and **revolution**.   (2x2=4)

3.2.4   At which of the positions, 1 to 4, is the **southern hemisphere** most likely to be experiencing the **spring equinox**?   (1)

3.2.5   Provide one reason for your answer in question 3.2.4.   (1x2=2)

                                                                                               [9]

3.3   Study the diagram below and answer the questions that follow.

3.3.1   Does the land or sea heat up more rapidly?   (1)

3.3.2   Provide three reasons for your answer in 3.3.1.   (3x2=6)

                                                                                               [7]

3.4.1   This holiday your family have decided to climb Mount Kilimanjaro, the tallest mountain in Africa. You will be based at Arusha which is 1400m above sea level. Mount Kilimanjaro is 5900m above sea level. The temperature at the top of Mount Kilimanjaro is -7°C. What is the temperature in Arusha? (**Show all calculations**)   (4)

3.4.2   Based on your calculation in 3.4.1; what is the relationship between altitude and temperature?   (2)

3.4.3   List two gases found in the atmosphere that will prevent heat from escaping rapidly?   (2x1=2)

3.4.4   Will the gases mentioned in 3.4.3 **increase** or **decrease** with altitude?   (1)

                                                                                               [9]

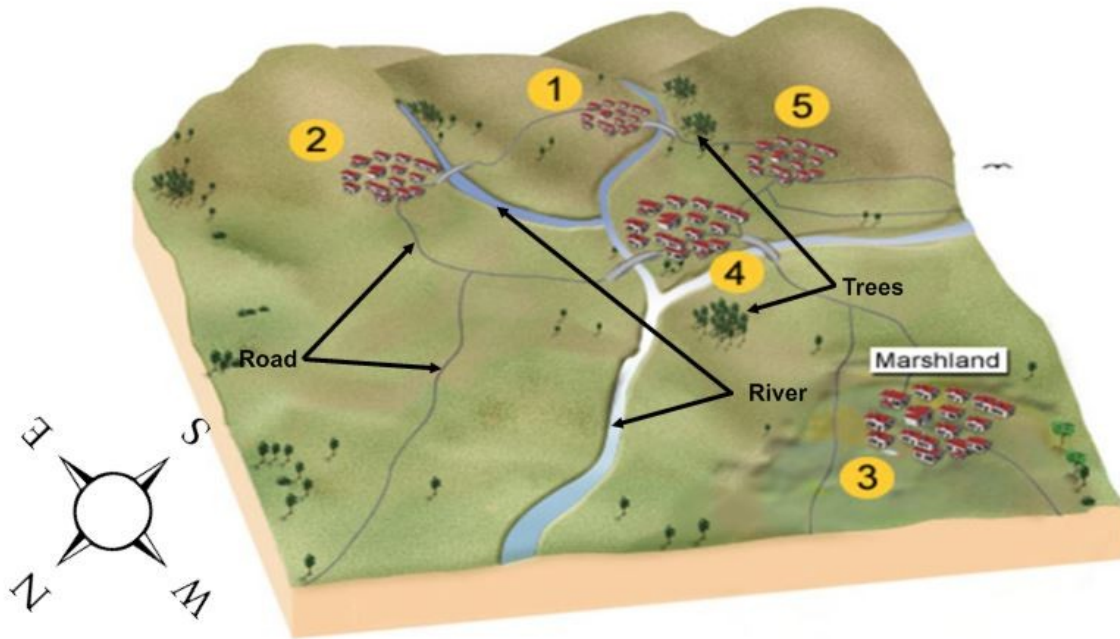   **Total for Question 3 = 30**

Question 4: Settlement, Trade and Transport

4.1   Match the term in column A with the best definition in column B. Write down only the question number and appropriate letter. E.g. 4.1.6 H

	COLUMN A		COLUMN B
4.1.1	Apartheid	A	People who travel from their home to their work.
4.1.2	Migrants	B	Divided South Africans into racial groups and the different groups of people were only allowed to live in certain areas of the settlement.
4.1.3	Rural depopulation	C	An increase in the proportion of the total population living in urban settlements.
4.1.4	Commuters	D	A former South African government policy that separated and ruled people according to their race.
4.1.5	Urbanisation	E	Decline in the number of people living in rural areas.
		F	To move away from your home.
		G	People who move as they change their place of residence

(5x1) **[5]**

4.2   Your family have decided to leave Cape Town and move to one of the towns pictured in the diagram below. These towns are in South Africa. Answer the questions that follow.

4.2.1   Before people settled on any of these **sites** they had to consider five different physical characteristics. Name two of them.   (2x1=2)

4.2.2   Your family has decided to live in town number **4**.

4.2.2.1   Give two reasons why they chose to live there.   (2x2=4)

4.2.2.2   Give one reason why it may be a poor decision.   (1x2=2)

4.2.3   What is the definition of the term **situation?**   (2)

[10]

4.3   Refer to the cartoon below that illustrates rural-urban migration and answer the questions that follow:

4.3.1   Give three reasons why people could be **PUSHED** from a rural area to an urban area.   (3x1=3)
4.3.2   Give two possible impacts of rural-urban migration on **urban** areas?   (2x1=2)
4.3.3   Very often when people retire they move from urban to rural areas. What is this called?   (1)
4.3.4   Provide two reasons which would cause the people in 4.3.3 to be pushed to rural areas.   (2x1=2)

[8]

4.4   You have just been made a director of an import and export company. It is your responsibility to manage the different types and routes of transport used.

4.4.1   Give the definition of **export.**   (1)
4.4.2   Choose the best mode of transport for the following products:
        a. Coal from Richards Bay to Perth, Australia.   (1)
        b. Milk from Cape Town to Johannesburg   (1)
4.4.3   Explain you reason for 4.4.2 a.   (1)
4.4.4   Explain your reason for 4.4.2 b.   (1)
4.4.5   Which national road would you use for **4.4.2 b**   (1)

[6]

4.5   You are responsible for developing a new transit strategy for the City of Cape Town that will encourage people to no longer use their motor cars.
4.5.1   Give two reasons why people should use other forms of transport.   (2x1=2)
4.5.2   Describe two different transit strategies that can be used to replace the motor car.   (2x3=6)

[8]

4.6   Refer to the diagram below and answer the questions that follow.

4.6.1   Identify the street pattern.   (1)
4.6.2   Give one advantage and one disadvantage of this street pattern.   (1+1=2)

[3]

Total for Question 4 = 40