

# TEACHERS WITHOUT BORDERS PROGRAMME

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basic education

Department:  
Basic Education  
REPUBLIC OF SOUTH AFRICA

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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."

## Contributing schools to date:

Clifton School	Milnerton High	Rustenburg Girls' High	St Peter's
Durban Girls'	Northwood High	St Anne's DC	St Stithians
Fairmont High	Roedean	St John's DSG	Wynberg Boys' High
Herzlia High	Rondebosch Boys'	St Mary's DSG Kloof	Wynberg Secondary

**Instructions:**

- Answer ALL questions.
  - Number all your questions as they are numbered on the question paper.
- 

**Question 1**

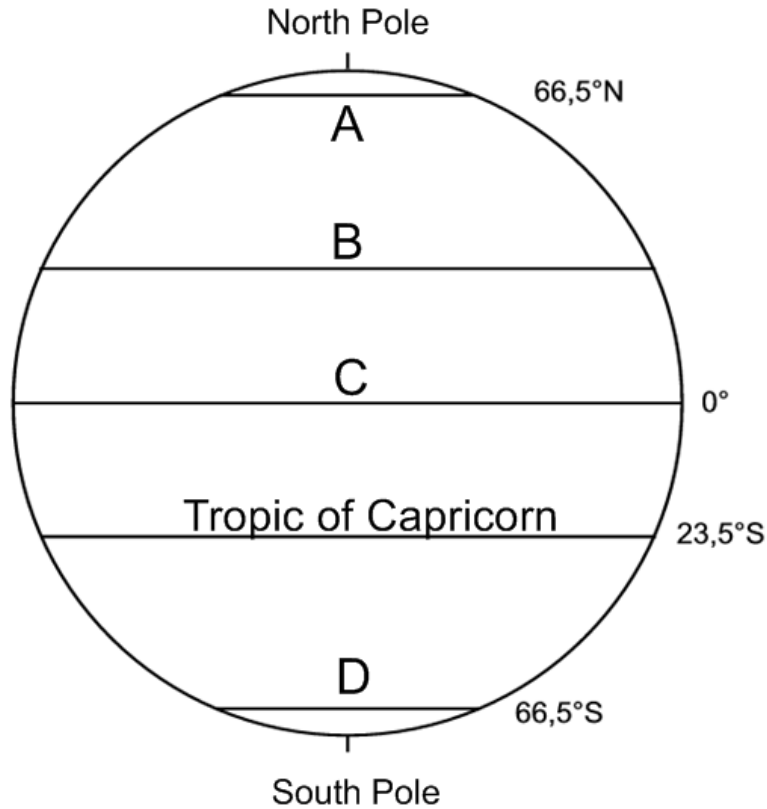
**Multiple Choice:** Choose the most appropriate answer and write only the question number and correct letter e.g. 1.6. e.

- 1.1 Which of the following statements is TRUE for co-ordinates?
- Lines of latitude are measured North and South of the Greenwich meridian
  - Each degree of longitude and latitude can be divided into 60 minutes
  - Cape Town's co-ordinates are 33°56'E and 18°29'S
  - Longitude is always given first.
- 1.2 Lines of latitudes are also called ...
- verticals
  - horizontal
  - meridians
  - parallels
- 1.3 Which of the following statements is TRUE for scale?
- The bigger the area covered by the map, the smaller the map scale.
  - The smaller the area covered by the map, the smaller the map scale.
  - 1:50 000 is a larger scale than 1:10 000
  - The bigger the scale of the map, the bigger the area covered but with less detail shown.
- 1.4 Which hemispheres is South Africa found in?
- The northern and eastern hemispheres
  - The southern and western hemispheres
  - The southern and eastern hemispheres
  - The northern and western hemispheres
- 1.5 Which of the following statements is FALSE for the Earth's rotation?
- The earth rotates from West to East
  - The earth rotates through 360° in a day
  - The earth rotates around the sun
  - The earth rotates once in 24 hours

**[5]**

## Question 2

Study the diagram below and answer the questions that follow.



- |     |   |       |
|-----|---|-------|
| 2.1 | Provide a definition for latitude.                        | 4x1=4 |
| 2.2 | Name the lines of latitude at A, B, C and D respectively. | 4x1=4 |
| 2.3 | At what degree can the line of latitude at B be found?    | 1x2=2 |
| 2.4 | At what degree can the North Pole be found?               | 1x2=2 |

[12]

## Question 3

Complete the paragraph below. You only need to write the **question number** and the **missing word/words**.

Lines of longitude are drawn from the North Pole to the South Pole. They are measured in degrees ...3.1... and ...3.2... of the ...3.3...

The Earth is divided into ...3.4... degrees of longitude. The ...3.5... follows the 180° line of longitude.

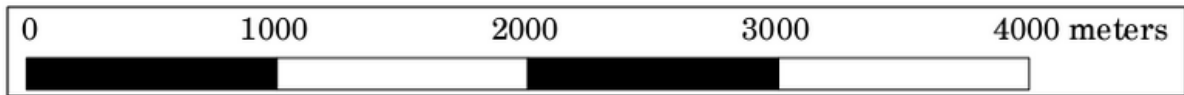
...3.6... is related to lines of longitude. Places to the ...3.7... experience a later time because the sun rises in the ...3.8...

All time zones are numbered from GMT which stands for ...3.9... When travelling from west to east you ...3.10... time.

[10]

**Question 4:**

- 4.1 Name the type of scale shown below. 1x1=1



- 4.2 An example of a numerical ratio scale is 1:20 000. Write this numerical ratio scale as a word scale. 4x1=4

- 4.3 Rewrite the sentence below as a numerical ratio scale. 1x2=2

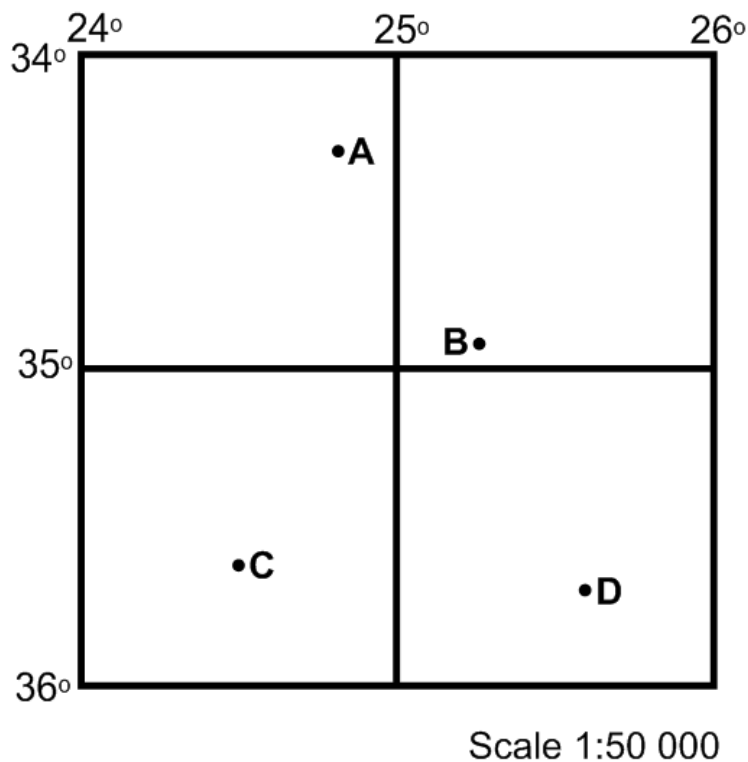
**1cm represents 40km**

- 4.4 Provide a definition for the term scale. 4x1=4

**[11]**

**Question 5:**

Study the map below of a place in South Africa and answer the questions that follow.



- 5.1 What are the co-ordinates for place A? 4x1=4
- 5.2 What are the co-ordinates for place B? 4x1=4
- 5.3 What is the distance from place B to C? 2x1=2
- 5.4 What is the distance from place C to D? 2x1=2

**[12]**

**TOTAL 50**