# 8.3 Increasing Water Supply: Large-Scale Engineering Schemes: 10-minute Pack

AQA 8035 · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

**Answer ALL questions. Show all your working.**

**1** State the country where the Lesotho Highlands Water Project is located, and the South African region that receives its water.

**(Total for Question 1 is 1 mark)**

**2** Give one primary physical feature that must be built to store water in the Lesotho Highlands Water Project.

**(Total for Question 2 is 1 mark)**

**3** Describe briefly how tunnels are used in the Lesotho Highlands Water Project to move water from Lesotho to South Africa.

**(Total for Question 3 is 2 marks)**

**4** Give one environmental cost associated with building large dams and reservoirs in the Lesotho Highlands Water Project.

**(Total for Question 4 is 1 mark)**


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**5** Describe one economic benefit to Lesotho from hosting the Lesotho Highlands Water Project.

**(Total for Question 5 is 2 marks)**

**6** Explain briefly why Gauteng benefits from the Lesotho Highlands Water Project in terms of water security for households and industry.

**(Total for Question 6 is 2 marks)**


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# Mark scheme · 8.3 Increasing Water Supply: Large-Scale Engineering Schemes: 10-minute Pack

## Question 1

Lesotho; Gauteng (South Africa) or equivalent phrasing **B1**

**Answer: Lesotho; the water is transferred to Gauteng in South Africa.**

## Question 2

a dam (e.g. a reservoir dam) or reservoir, oe **B1**

**Answer: A dam (forming a reservoir).**

## Question 3

water flows through long man-made tunnels drilled through mountains, oe **B1**

tunnels transfer stored water downhill or across a watershed into South Africa, providing a controlled route for inter-basin transfer, oe **B1**

**Answer: Water is passed through long man-made tunnels drilled through the highland mountains; the tunnels convey stored water downhill and across the watershed into South Africa as part of the inter-basin transfer.**

## Question 4

habitat loss or flooding of land/river valleys, oe **B1**

**Answer: Habitat loss from flooding river valleys when reservoirs are created.**

## Question 5

Lesotho receives income from water royalties or payments from South Africa, oe **B1**

this income can be used to invest in infrastructure and public services in Lesotho, oe **B1**

**Answer: Lesotho receives income from water royalties paid by South Africa; this revenue can be used to invest in national infrastructure and public services.**

## Question 6

the project provides a reliable extra source of water to Gauteng, reducing supply shortages, oe **B1**

this supports domestic use and allows factories and mines to maintain production, reducing economic disruption, oe **B1**

**Answer: The LHWP supplies a reliable additional source of water to Gauteng, reducing shortages; this secures household supplies and allows industry and mining to continue operating without water-related interruptions.**


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