6.1 Global and UK Resource Security: Trends in Food, Water and Energy: 10-minute Pack

AQA 8035 · Calculators not allowed · about 10 minutes

Total Marks

Name: _____ Date: ____ / ____ / _____

Answer ALL questions. Show all your working.

1 State three types of resource considered in this topic: food, water and energy.

(Total for Question 1 is 1 mark)

2 Define the term 'resource security' as it applies to food, water or energy supplies.

(Total for Question 2 is 2 marks)

3 Name one UK region that typically has a water surplus and name one UK region that typically has a water deficit. Give the region names.

(Total for Question 3 is 2 marks)

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4 Give two possible consequences for communities in the south east of England if water deficits are not managed.

(Total for Question 4 is 2 marks)

5 A student collects daily household energy use readings for four households: 12 kWh, 8 kWh, 15 kWh and 5 kWh. Calculate the mean daily energy use for these households. Give your answer to one decimal place.

(Total for Question 5 is 2 marks)

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Mark scheme · 6.1 Global and UK Resource Security: Trends in Food, Water and Energy: 10-minute Pack

Question 1

any one of: food, water, energy **B1**

Answer: Food, water, energy.

Question 2

the reliable availability of a resource when and where it is needed, oe **B1**

and the ability of people and economies to access that resource affordably, oe **B1**

Answer: Resource security is the reliable availability of a resource when and where it is needed, and the ability of people and economies to access that resource affordably.

Question 3

e.g. north-west England or Scotland for surplus **B1**

e.g. south-east England for deficit **B1**

Answer: Water surplus: north-west England (or Scotland). Water deficit: south-east England.

Question 4

reduced water availability for households and businesses, e.g. water restrictions, lower quality of life, oe **B1**

economic impacts, e.g. reduced agricultural output or business closures in water-intensive industries, oe **B1**

Answer: Possible consequences include reduced water availability for households and businesses, leading to restrictions and lower quality of life, and economic impacts such as reduced agricultural output or harm to water-intensive industries.

Question 5

sum 12 + 8 + 15 + 5 and divide by 4 seen, oe **M1**

10.0 kWh cao **A1**

Answer: 10.0 kWh.

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