GCSE Astronomy Planet Earth Questions

Worked solutions can be seen at https://	/voutu.be/OrLN6li	VmEU
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Q1.	
The a	verage diameter of the Earth is:
E	A 3500 km B 13 000 km C 380 000 km D 150 000 000 km
	(Total for question = 1 mark)
Q2.	
The m	nost southerly latitude where the Sun is above the horizon for 24 hours on 21st June is the:
E	A Antarctic Circle B Arctic Circle C Tropic of Cancer Tropic of Capricorn
	(Total for question = 1 mark)
Q3.	
(i) Ex	xplain why light pollution may affect some naked-eye observations of constellations.
(ii) A	student begins an observation at midnight on a clear moonless winter night.

(2)

Explain why the student notices that more stars are visible half an hour later.

	(Total for question = 4 marks)	
Using information	on from the previous questions:	
(i)	Calculate the circumference of then Earth at the equator ($2\pi r$)	
(ii)	Calculate the surface area of the Earth $(4\pi r^2)$	
(iii)	Calculate the volume of the Earth (4πr³/3)	
(Give all you	answers in appropriate units)	
(i)		
(ii)		
(iii)		
Draw and label a	diagram to explain the meaning of the term 'oblate spheroid':	
Draw and label a	diagram of a globe with all the following reference lines and points:	
Equator; Tropic of Meridian; North F	of Cancer; Tropic of Capricorn; Arctic Circle; Antarctic Circle; Prime Pole; South Pole	