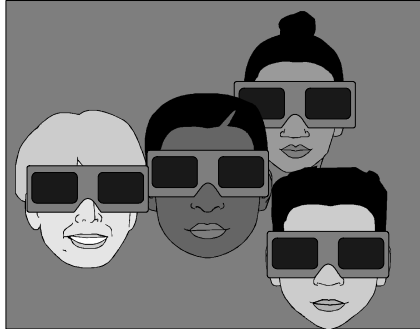


Solar System Homework

Name

1. Some children watched an eclipse of the Sun.

During the eclipse, the Moon passed between the Sun and the Earth.



Explain what an eclipse is

1 mark

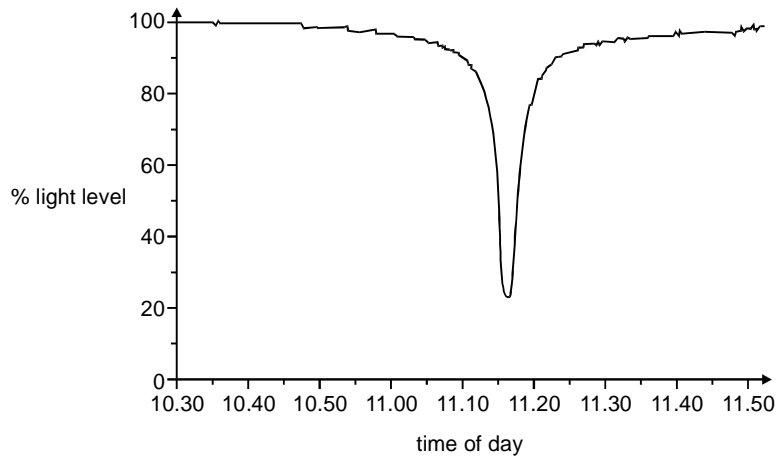
- (a) Amrik watched the eclipse. He knew that the Sun is much bigger than the Moon but they looked about the same size.

Why did they look the same size?

1 mark

- (b) The class measured the light level during the eclipse.

The graph below shows their results.

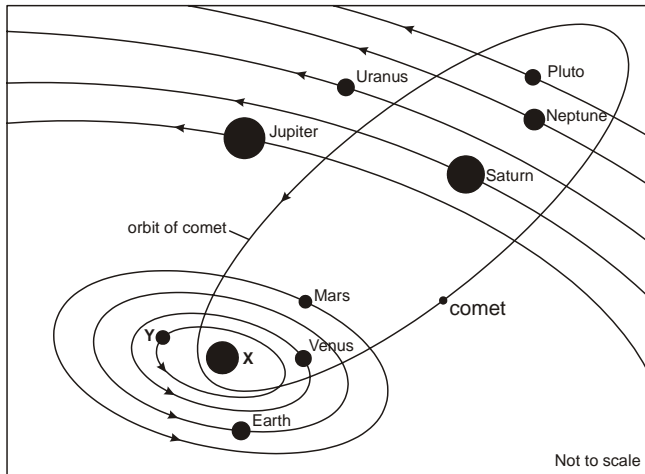


- (i) At what time did the Moon block out most of the Sun's light?
Use the graph to help you. am

1 mark

Solar System Homework

2. (a) The diagram below shows part of the solar system.



Look at the diagram.
Give the names of X and Y.

X.....

Y.....

2 marks

(b) It takes Jupiter much longer than Mars to complete one orbit.
Give **two** reasons for this.

1 _____

2 _____

2 marks

(c) The diagram also shows the orbit of a comet.

In 1531, 1607 and 1683 scientists recorded that had seen a comet in the sky.

(i) Edmund Halley looked at these dates and suggested the scientists had all seen the same comet.

Explain how he might have worked out that it was the same comet each time.

.....

1 mark

(ii) The comet was last seen in 1986. Predict when it will be seen next.

.....1 mark

(c) Asteroids orbit the Sun just like the planets. Information about five asteroids is given in the table below.

name of asteroid	Eugenia	Hestia	Iris	Melpomene	Psyche
time of orbit in Earth years	4.49	4.01	5.51	3.48	5.00

Which asteroid is the greatest distance from the Sun?

.....

Solar System Homework

Total marks /10

1 mark