

Date: \_\_\_\_\_

## Chapter 9, lesson B: Spinning of Earth ( 9.B.1 )

1. Complete the sentence. Choose from the following words.

|      |        |      |       |
|------|--------|------|-------|
| axis | centre | days | hours |
|------|--------|------|-------|

Earth spins on its \_\_\_\_\_.

It takes 24 \_\_\_\_\_ to complete one spin.

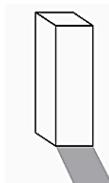
2. Look at the diagram. One side of Earth has day, and the other side has night. Where is the Sun shining when this happens?

Tick (✓) the correct box.

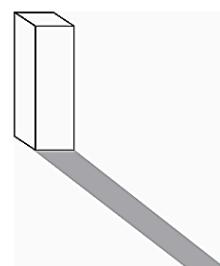


3. Look at the diagram. Which diagram shows the shadow of the stick under the Sun around noon? Circle the correct letter.

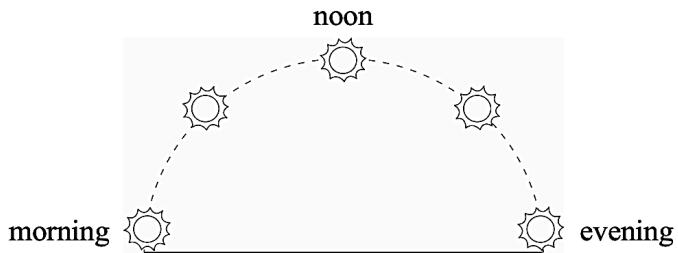
A



B



4. The diagram shows the position of the Sun at different times of the day.



a. Complete the sentence.

The Sun appears to move across the sky because

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b. One morning, Samir observes the shadow of a tree in the garden.

He notices that the shadow changes in length and position at noon.

Explain why the shadow changes.

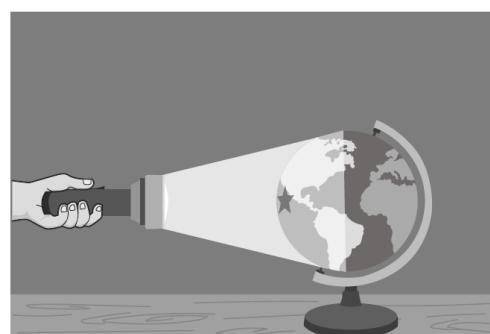
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5. The diagram shows a model.

Explain why we have day and night on Earth.  
Use the model to help you.

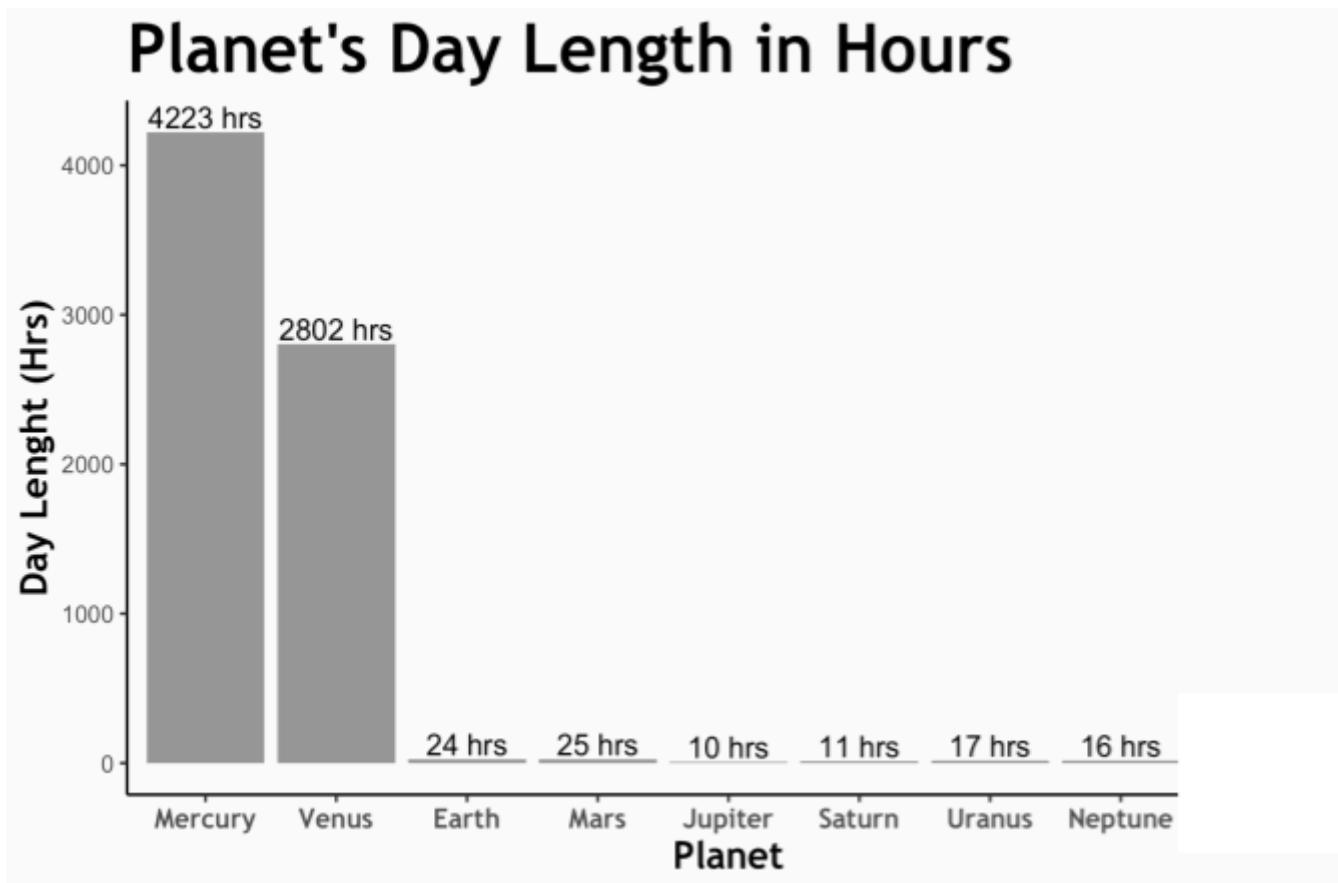


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6. The bar chart shows how long a day is on each planet.  
Answer the questions below after looking at the bar chart.



a. Which planet has the longest day? \_\_\_\_\_

b. Which planet has the shortest day? \_\_\_\_\_

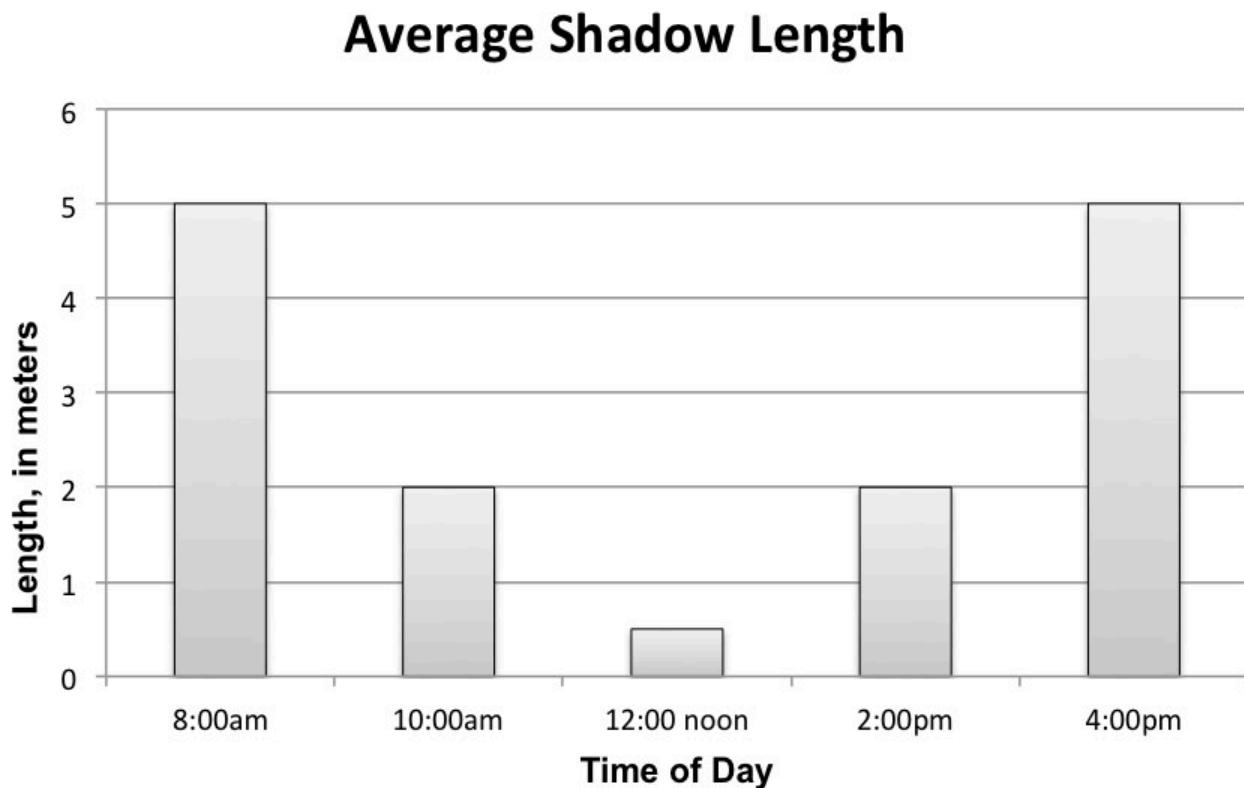
c. Explain why Earth has 24 hours in a day?

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7. The bar chart below shows the length of a tree's shadow during the day.



a. At what time is the shadow the shortest during the day?

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b. The length of the shadow is 5 meters at \_\_\_\_\_ and \_\_\_\_\_.

c. The length of the shadow is \_\_\_\_\_ meters at 10 am and 2 pm.

d. Explain why the shadow is the longest at 4pm but the shortest at noon/ 12pm.

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