

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

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

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

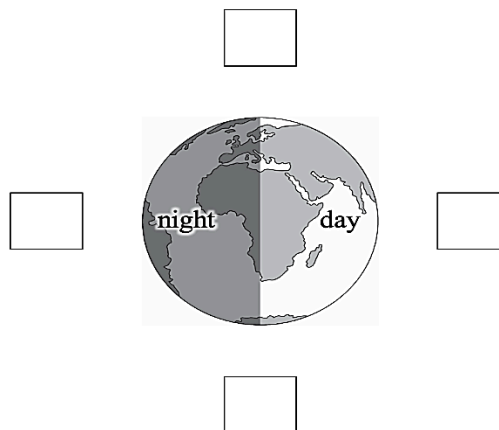
axis	centre	days	hours
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Earth spins on its \_\_\_\_\_.

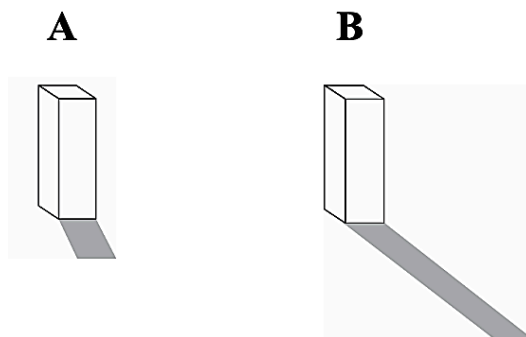
It takes 24 \_\_\_\_\_ to complete one spin.

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?

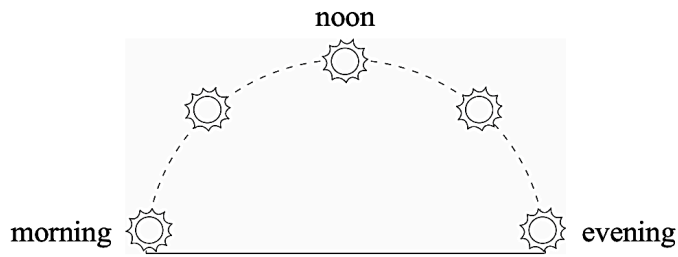
Tick (✓) the correct box.



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



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.

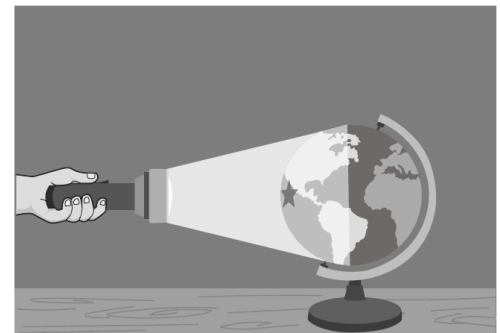
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5. The diagram shows a model.

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

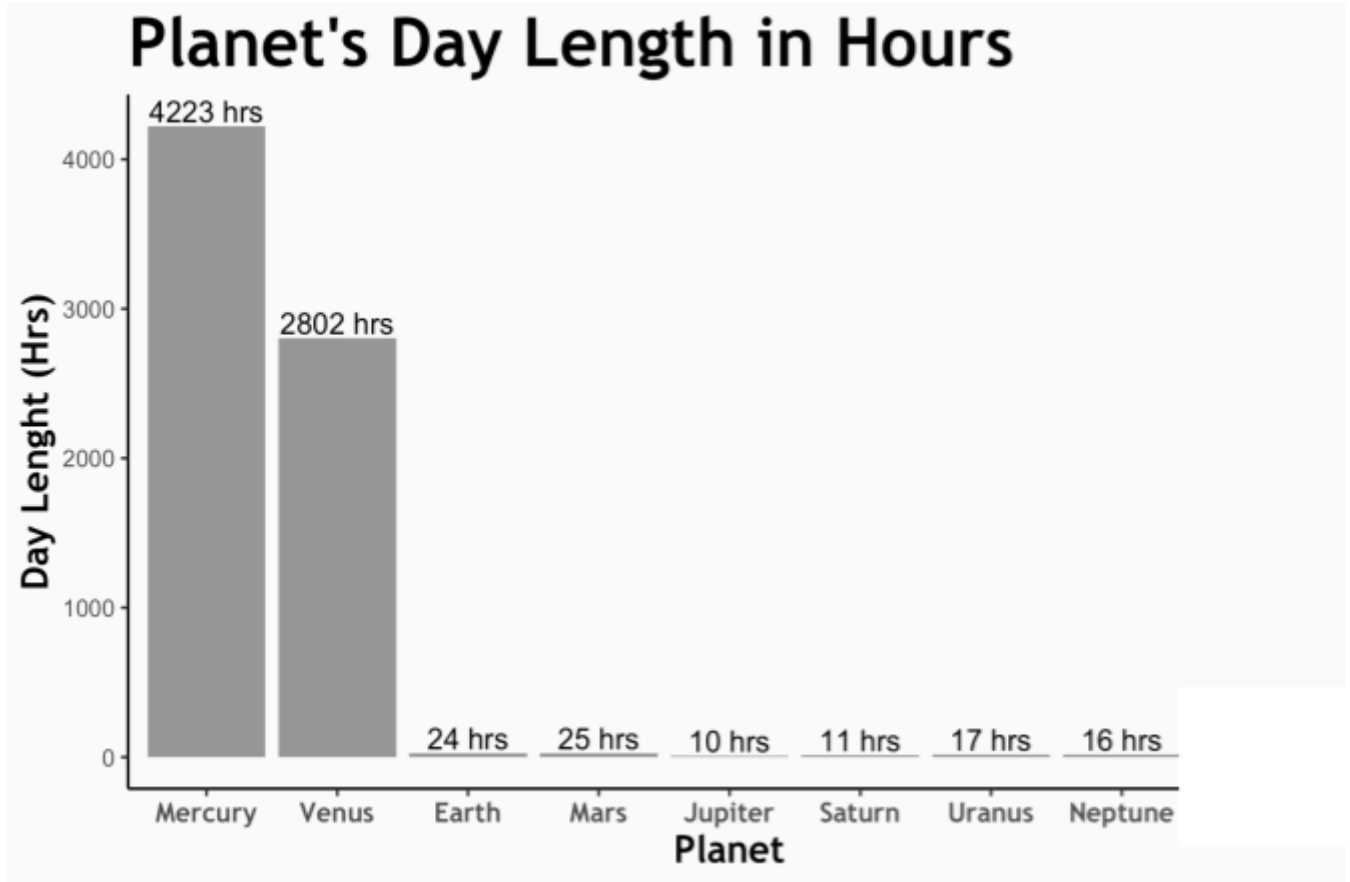


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6. The bar chart shows how long a day is on each planet.  
Answer the questions below after looking at the bar chart.



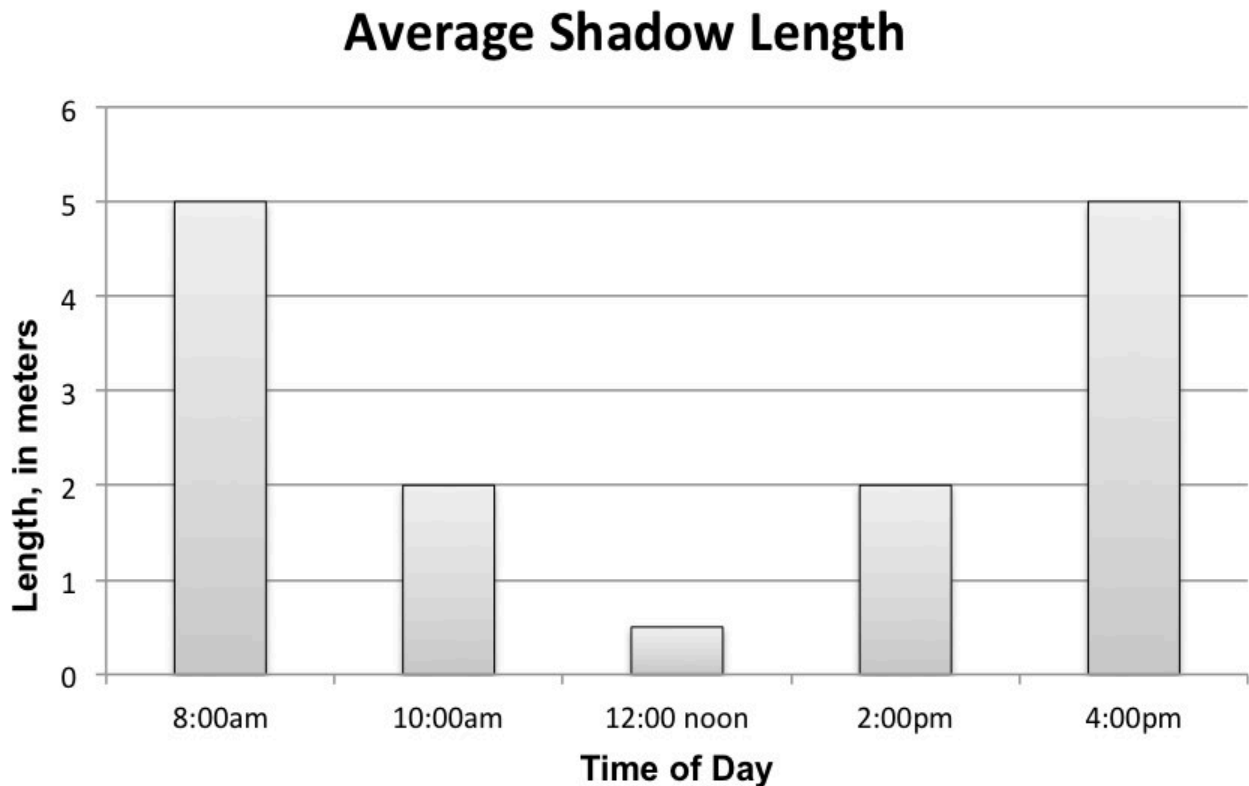
- a. Which planet has the longest day? \_\_\_\_\_
- b. Which planet has the shortest day? \_\_\_\_\_
- c. Explain why Earth has 24 hours in a day?

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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?

\_\_\_\_\_

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.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_