

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

## Chapter 7, lesson B: Reflection of Light ( 7.B.1 )

1. Object X is not a source of light. How can we see object X?

Circle the correct answer.

**It absorbs light.**

**It gives off light.**

**It reflects light.**

2. Three students wrote notes about the properties of light.

**Aziz**

Light travels in the same direction after it is reflected.

**Jenny**

We can see objects because they are light sources.

**Sarah**

We need light to see.

a. Circle the name of the student who is correct.

**Aziz**

**Jenny**

**Sarah**

b. Correct the other statements.

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3. Draw rays of light on the diagram to show how the girl can see the bird.

(source of light)



4. Peter is in a dark room. There are no lights in the room.

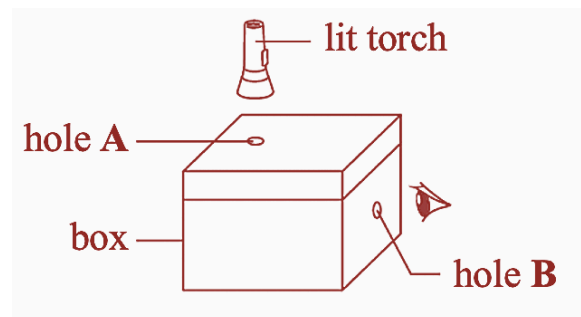
Can Peter see the walls in the room? Explain.

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5. Yasmin prepares a set-up as shown below.

She sees light inside the box through hole B.



Yasmin covers hole A.

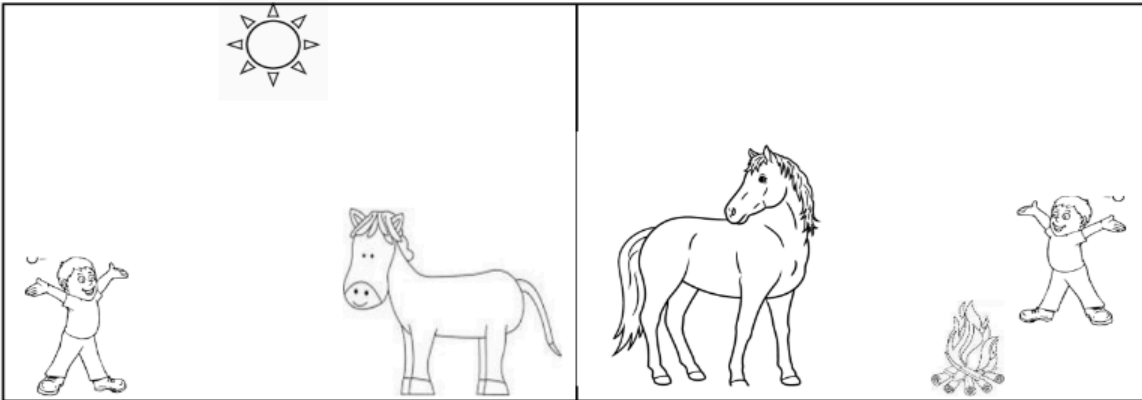
Can she see light inside the box through hole B now?

Explain.

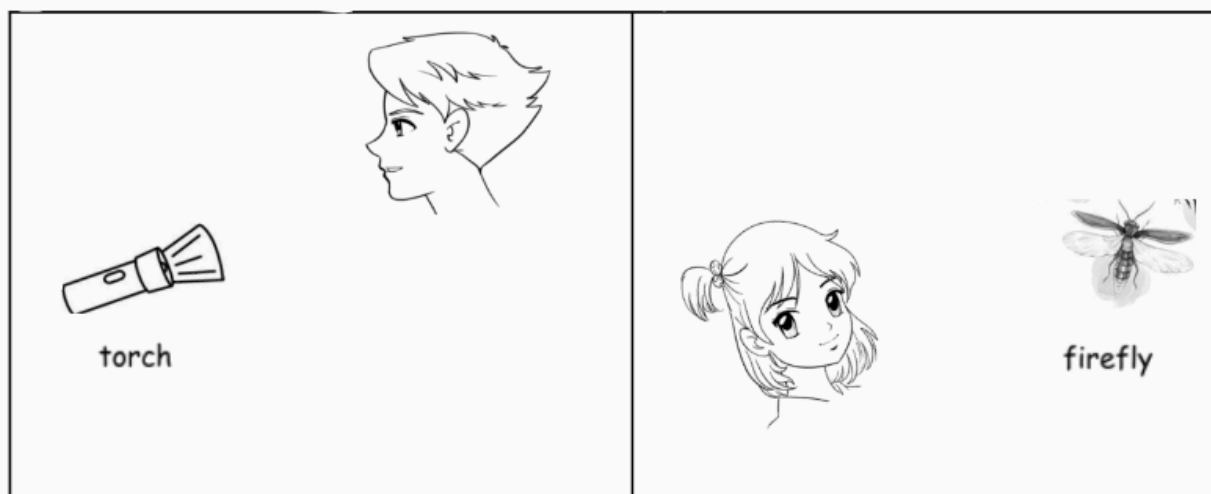
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6. Draw a ray diagram to show how Peter can see the horse.  
Show the direction of the arrows clearly.



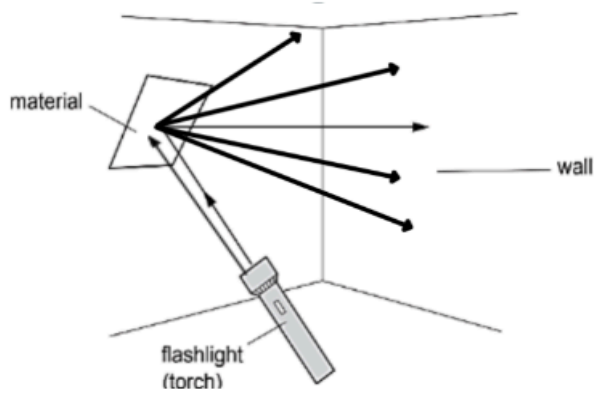
7. Draw a ray diagram to show how a light source is seen.



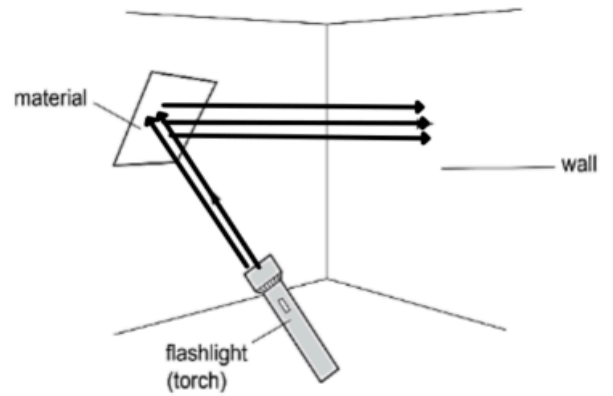
8. Draw a ray diagram to show how the cat sees the girl.



9. According to the pictures below, fill in the table.



Picture A



Picture B

|  | Picture A | Picture B |
|--|-----------|-----------|
| type of surface<br>( <b>rough</b> or <b>smooth</b> )   |           |           |
| material / object<br>( <b>mirror</b> or <b>wood</b> )  |           |           |
| <u>light rays are reflected</u> off the surface in<br>( <b>all directions</b> or <b>the same direction</b> ) |           |           |

10. Fill in the blanks.

\_\_\_\_\_ : bounces off

\_\_\_\_\_ : a drawing that shows how light travels

\_\_\_\_\_ : the bouncing of light from a surface

\_\_\_\_\_ : gives the same result when the experiment is repeated.