

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.

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

(source of light)



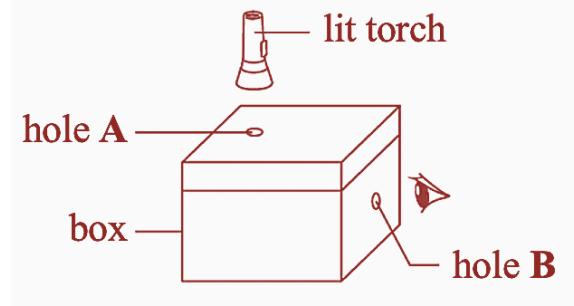
4. Peter is in a dark room. There are no lights in the room.

Can Peter see the walls in the room? Explain.

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

She sees light inside the box through hole B.

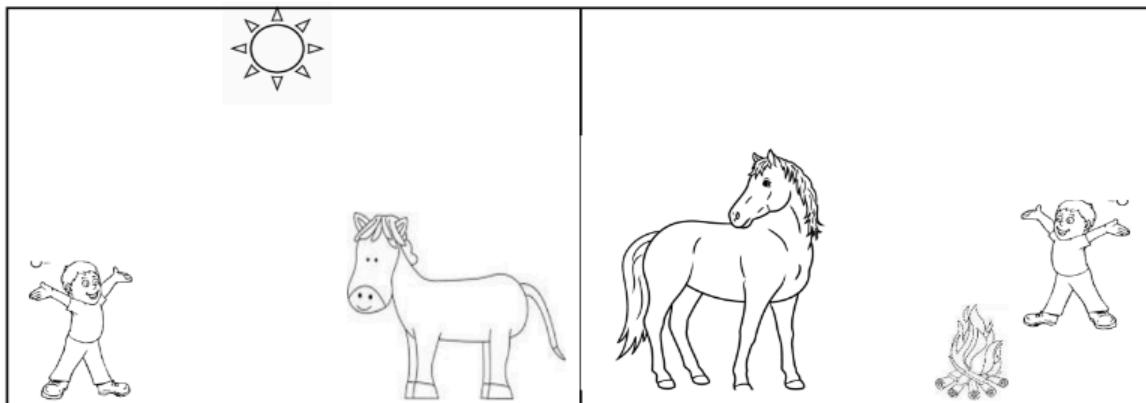
Yasmin covers hole A.



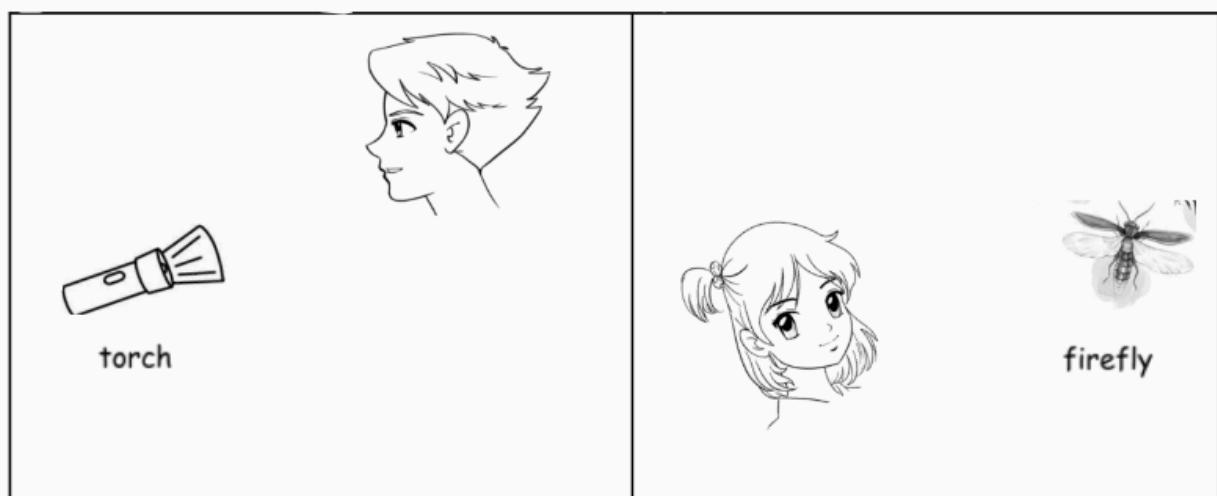
Can she see light inside the box through hole B now?

Explain.

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



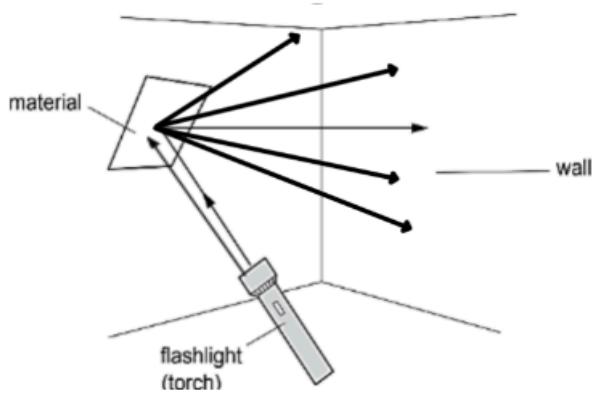
7. Draw a ray diagram to show how a light source is seen.



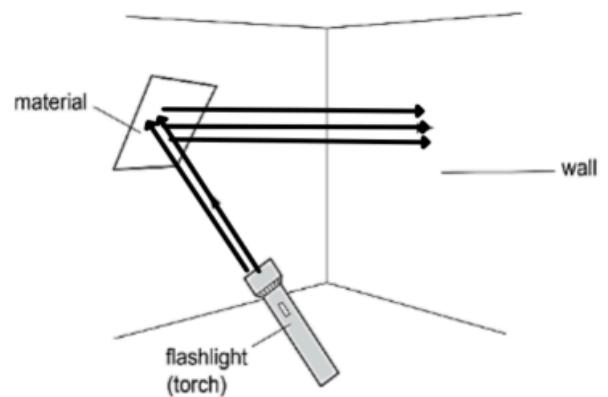
8. Draw a ray diagram to show how the cat sees the girl.



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



Picture A



Picture B

	Picture A	Picture B
type of surface (rough or smooth)		
material / object (mirror or wood)		
light rays are reflected off the surface in (all directions or the same direction)		

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.