

Name _____ Date _____

Worksheet 5.2

Light travels in straight lines

Sergio and Carlos are camping in the mountains with their father. It is evening and they have lit a fire to cook their supper.



- 1 Carlos has gone to collect wood for the fire. Identify the light source.

- 2 On the picture draw rays to show how Carlos sees the wood. Show the direction of the rays with arrows. Label the arriving ray and the reflected ray.

- 3 Sergio and his father are sitting facing each other. Identify the light source that allows the father to see Sergio.

- 4 On the picture draw rays to show how the father sees Sergio. Show the direction of the rays with arrows. Label the arriving ray and the reflected ray.

Help sheet

Points to remember when you draw a ray diagram:

- Identify the light source.
- Identify the object.
- Identify the person who sees the object.
- Draw the arriving ray from the light source to the object.
The arrow must point to the object.
- Draw the reflected ray from the object to the person's eyes.
The arrow must point to the person's eyes.

For question 2: On the picture draw rays to show how Carlos sees the wood.

Show the direction of the rays with arrows. Label the arriving ray and the reflected ray.

- The Moon is providing light because it is reflecting light from the Sun.
- The object is the wood.
- The person is Carlos.
- Draw the arriving ray from the Moon to the wood on the ground near Carlos.
Make the arrow point towards the wood.
- Draw the reflected ray from the wood to the Carlos's eyes.
Make the arrow point towards Carlos's eyes.

Now answer question 4 in the same way.

Stretch sheet

It is a sunny day at the market. Madame Poirot is selling cooked chickens. Ben has bought a chicken.

- 5 In the picture the Sun is shining from the top left corner.
Draw rays to show how Ben sees Madame Poirot's head.
Label the arriving ray and the reflected ray.
- 6 On the picture, draw rays to show how Madame Poirot sees Ben's camera.
Label the arriving ray and the reflected ray.

