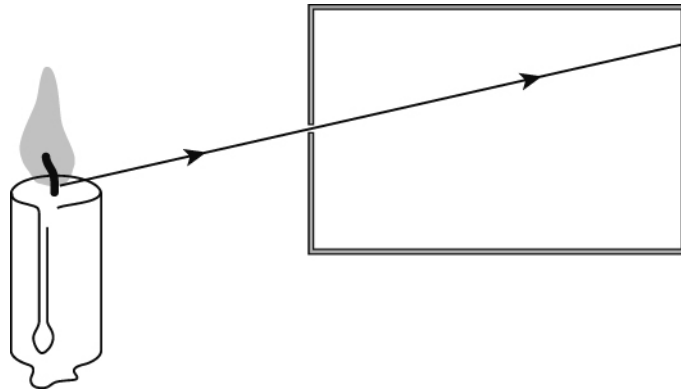




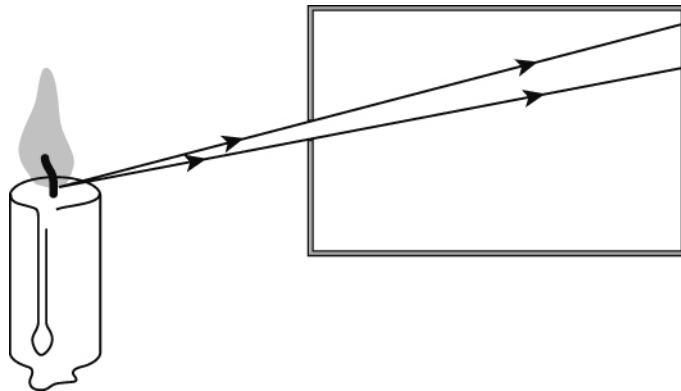
1 Diagrams A and B show two pinhole cameras with different sized holes. Finish drawing the rays of light to show how an image is formed on the screen in each camera.

A



2 Diagram C shows a pinhole camera with a large hole and a lens. Finish drawing the rays of light to show how an image is formed.

B

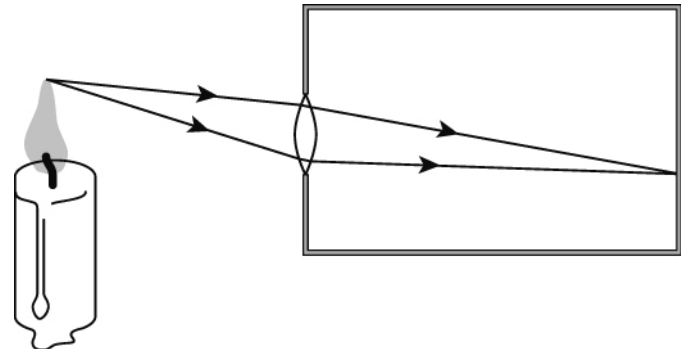


3 On lined paper, write a short paragraph to explain:

- a** why the cameras produce an image that is upside down
- b** why camera B produces a brighter image than A
- c** why camera A produces a sharper image than B.

4 Write a short paragraph to explain why cameras need lenses.

C



5 Explain how the lenses in our eyes help us to see.

6 Cut out your completed diagrams and explanations and stick them onto a piece of paper.

I can...

- draw ray diagrams to show the paths of light rays in cameras
- explain why lenses are needed in cameras and eyes.