



- Can usually see far away objects clearly, but not nearby objects
- Object is "too close", so the image is "too far".
- The image focuses behind the retina.

## **Correcting Farsightedness**



- Image Rays don't converge enough to focus, so make them converge more with a converging lens.
- The eye looks at a virtual image (not shown) at the near point.

Section 25.2



• The image focuses in the front of the retina.

Section 25.2

## **Correcting Nearsightedness**



- A diverging lens can be used to correct the condition.
- The eye looks at a virtual image (not shown) at the far point.

Section 25.2

## Compound Microscope The Size of a Magnified Image The objective lens forms an image here. 25 cm Objective Eyepiece f f, 25 cm Without the lens, an object is placed at the near point, the angle subtended is a maximum. – The near point is about 25 cm With the lens, the children of th ==== p1-- q1==== With the lens, the object is placed near the focal point of a • converging lens, the lens forms a virtual, upright, and enlarged image. The eyepiece lens forms an image here. Section 25.3 a

