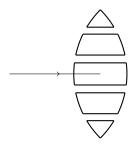
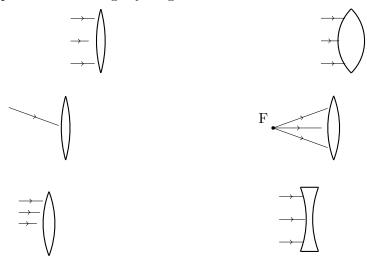
Lenses I

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- 1. Copy out and complete the following sentences:
 - (a) A converging lens is also known as a ... lens
 - (b) A diverging lens is also known as a ... lens
 - (c) Parallel rays entering a converging lens are refracted to a point called the
 - (d) The focal length of a lens is the distance between the ... and the lens.
 - (e) A fat convex lens is a ... lens, with a ... focal length.
- 2. We can imagine that a lens is made up of many prisms. For a converging lens it may look like:



- (a) Complete the diagram to show what happens to the rays of light entering each prism at each surface due to refraction.
- (b) Draw a similar diagram for a diverging lens, showing what happens at each surface.
- 3. Copy out and complete the following ray diagrams:









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