

Use Chapter 3 in Upton and Upton to answer the following questions.

1. What is the basic job of a lens? (5)
2. What is the camera obscura? (5)
3. Complete: Most lenses are convex lenses which bend light rays so they converge at a single point, called the _____. This point falls on a surface called the _____. This plane and our film plane are the same. (4)
4. The physical characteristic of light which convex lenses operate by is that light rays can be _____. (2)
5. What is focal length? (5)
6. What two things does focal length control? (4)
7. Magnification increases as we (increase/decrease) focal length. (2)
8. If we go from a 25mm to a 50mm lens what will that do to the size of our subject? (Specific answer) (2)
9. What is the normal angle of view of a 50mm lens? (2)
A 300mm lens? (2)
A 28mm lens? (2)
10. What is a normal focal length lens for a 35mm camera? (2)
For a 120mm camera? (2)
For a 4x5 camera? (2)
11. What are three advantages of a normal lens? (6)

12. What are three advantages of a long lens? (6)
13. Does a long lens have more or less depth-of-field? (2)
14. What are three disadvantages of a long lens? (6)
15. What is the recommended shutter speed for hand-holding a 105mm lens on a 35mm camera according to the book? (2)
16. What is the difference between a long lens and a telephoto lens?(4)
17. What are two main characteristics of a wide-angle lens? (4)
18. What is a fisheye lens? (2)
19. What is a zoom lens? (2)
20. What kind of lens would we need to use if we were photographing something extremely close? (3)
21. What is depth-of-field? (5)
22. What is the normal ratio for depth-of-field in front of your subject versus behind your subject? (4)
23. What are two ways you can increase depth-of-field? (4)

24. What is perspective? (5)

25. What controls perspective? (4)