

**Read the article “Looking at Lenses”, then complete the following questions:**

1. What is the function of the lens diaphragm?
2. What does the lens aperture do?
3. A wide aperture lets in more or less light through the lens?
4. A small aperture lets in more or less light through the lens?
5. Does the lens aperture start and stop the flow of light to the film, yes or no? If no, what camera function does?
6. Why is it more important to control the flow of light striking the film?
7. What size aperture would you use in a dim light situation? Wide or small?
8. What size aperture would you use in a bright light situation? Wide or small?
9. What other important elements does the lens opening effect?
10. Explain depth of field.
11. What other camera function does the aperture effect?
12. Does the size of the aperture effect how much the camera “sees”, yes or no? If no, how does it effect the image?
13. What opening is the aperture set when it’s “wide open”?
14. What are you doing when you are “stopping down” the lens?

15. What is the number indicated on the lens aperture ring called?
16. The larger the f-stop number, the smaller or larger the diaphragm opening?
17. The smaller the f-stop number, the smaller or larger the diaphragm opening?
18. The sequence of whole f-stop number represents an exact doubling or halving of the amount of light entering the camera? True or False.
19. What term is used by the photographer to express qualities of light?
20. An aperture of  $f/8$  lets in half or twice as much light as  $f/5.6$ ?
21. An aperture of  $f/4$  lets in half or twice as much light as  $f/5.6$ ?
22. Is the f/stop the actual physical measurement of the size of the aperture, yes or no? If no, what does the f/stop express?
23. How is the f/stop derived?
24. The actual, physical size of a given f/stop depends entirely on what?
25. If the lens on your camera has a focal length of 49mm, what size is the actual opening of the aperture in mm?
26. Does the focal length affect the amount of light that enters the camera if the f/stop is set at the same setting?
27. Other than focal length, what other ways are lenses described? Explain.
28. A lens with a wide maximum aperture is called a \_\_\_\_\_ lens?

29. A lens with a smaller maximum aperture is called a \_\_\_\_\_ lens?

30. Define depth of field.

31. What 2 terms are used to describe depth of field?

32. What 3 factors work together to affect depth of field?

33. What is the main factor that most often controls depth of field?