

The Camera (Shutter Speed & Aperture)  
Lamar/THS Photography

Use Chapter 2 in Upton and Upton to answer the following questions about the shutter and aperture.

1. What is the function of the shutter and what two things does it control? (6)
2. What are the shutter speeds you normally find on today's cameras? (6)
3. Complete: Each shutter setting is \_\_\_\_\_ or \_\_\_\_\_ that of the one next to it. (4)
4. How does a focal-plane shutter work? (4)
5. How does a leaf shutter work? (4)
6. Which shutter is quieter? (2)
7. Which shutter can get faster shutter speeds? (2)
8. Which shutter is usually found in the body of the camera? (2)
9. Which shutter is usually found in the lens of the camera? (2)
10. Which shutter can be used with a flash at any shutter speed? (2)
11. How do you eliminate blur in a photograph? (2)
12. Which will blur more at 1/30 of a second, an object moving towards the camera or one moving across the scene? (4)
13. What is panning? (4)

14. What two things does the aperture control? (4)
15. What are f-stops? (4)
16. What does “stopped down” mean? (4)
17. What are the standard apertures found on most cameras? (6)
18. If we change from  $f/2.8$  to  $f/4$  what happens to the light entering the camera? (4)
19. If we say we are giving one stop more exposure to our picture, what do we mean? (4)
20. What is depth-of-field? (6)
21. How much depth-of-field will we get at  $f/16$ ? (3)
- At  $f/2$ ? (3)
22. According to the depth-of-field scale on the lens on page 49, if we are focused at 7 feet and are using an aperture of  $f/8$ , how much of our photograph is going to be in focus? (What distance in feet?) (4)
23. Complete: Since each aperture setting lets in \_\_\_\_\_ as much light as the next smaller size, and each shutter speed lets in \_\_\_\_\_ as much light as the next slower speed, you can use a larger aperture if you use a \_\_\_\_\_ shutter speed or a smaller aperture if you use a \_\_\_\_\_ shutter speed. (4)
24. What differences do you see in the photographs of the pigeons between the picture taken at  $1/8$  of a second at  $f/16$  and  $1/500$  of a second at  $f/2$ ? (4)

25. If you are handholding a camera with a 50mm lens, what is the slowest shutter speed recommended? (2)

26. What are two things you can do to prevent camera movement when handholding your camera? (4)