The Great Photography Knowledge Quiz 3rd edition, Part- 1



by Clem Wehner

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- Q. When printing a large print it is best if the photo was taken using:
- ✓a. more pixels
 - b. larger pixels
 - c. faster pixels
 - d. mega pixels

Not enough pixels for enlarging

- A. When printing a large print it is best if the photo was taken using:
 - a. more pixels
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 - c. faster pixels
 - d. mega pixels

Q. To ensure a focused image when hand holding a camera, use a shutter speed that is:

- a. double the focal length
- b. ½ the focal length
- c. equal to the aperture
- d. double the ISO setting



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- Q. Moving a light closer to a subject:
 - a. makes the light on the subject brighter.
 - b. makes the light on the subject dimmer.
 - c. does not change the brightness of the light on the subject.
 - d. it depends on the subject's reflectivity.

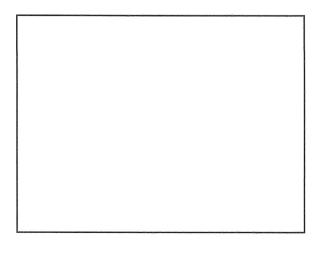
RULES OF THUMB

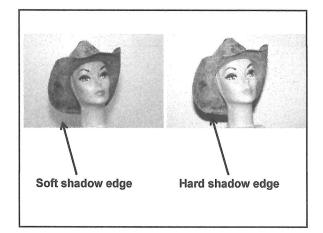
HAND HOLDING THE CAMERA

SET SHUTTER SPEED AT LEAST EQUAL TO FOCAL LENGTH (Ex. 100 mm lens, use $1/100^{th}$ shutter speed (minimum)

FOR TACK-SHARP FOCUS, DOUBLE THE SHUTTER SPEED. (ex. 100 mm lens, use 1/200th shutter speed)

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- Q. Moving a light closer to a subject:
 - a. makes the shadows harsher (harder).
 - b. makes the shadows less harsh (softer).
 - c. makes no difference in the shadow.
 - d. makes the shadows darker

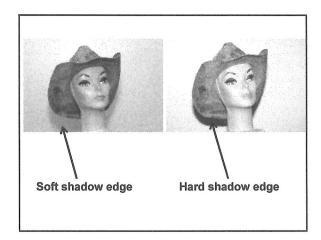
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- Q. Moving a light farther from a subject:
- a. makes the shadow edges softer
- b. makes the shadow edges harder
- c. does not change the shadows
- d. it depends on the subject's reflectivity

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- a. makes the shadow edges softer
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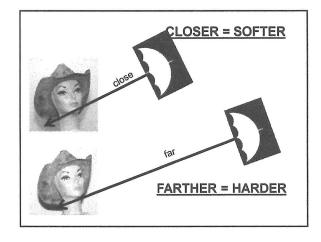
- Q. An umbrella is a useful tool because it:
 - a. softens the light
 - b. increases light specularity
 - c. brightens the light
 - d. softens the shadow edges

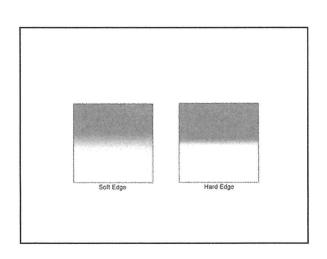


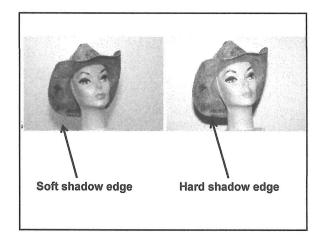


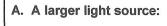
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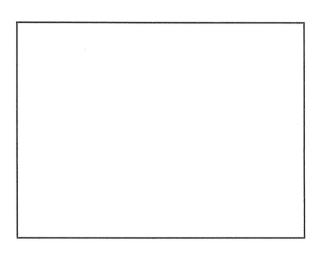


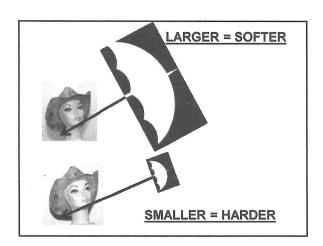






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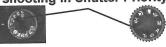


Q. A larger light source:

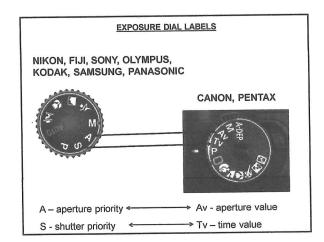


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Q. When shooting in Shutter Priority mode:



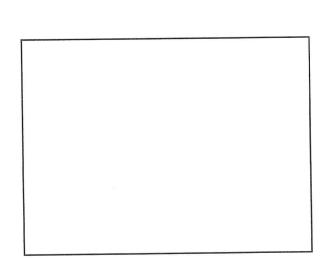
- a. the camera chooses the shutter speed
- b. the camera chooses a shutter speed that keeps the subject from blurring
- c. the photographer chooses any shutter speed desired
- d. Camera sets shutter, photographer sets aperture



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- a. the camera chooses the shutter speed
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Camera measures the light, then



SHUTTER PRIORITY (S, Tv):
You set shutter speed, camera sets aperture.

APERTURE PRIORITY (A, Av):
You set aperture, camera sets shutter speed.

Q. A subject is 6 feet from a light. The exposure is good at f/8. If the subject moves to 9 feet from the light, the f/stop should be changed to:

a. f/4

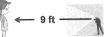


f/stop = f/8

b. f/5.6

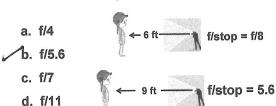
c. f/7

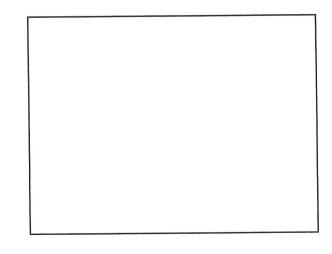
d. f/11

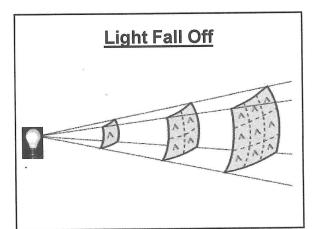


f/stop = ?

A. A subject is 6 feet from a light. The exposure is good at f/8. If the subject moves to 9 feet from the light, the f/stop should be changed to:







- Q. A lens designated as a 100mm lens means:
 - a. the diameter of the lens is 100mm
 - b. the effective distance from lens to the sensor is 100mm
 - c. the circumference of the lens is 100mm
 - d. the focal ratio is 100mm to 1mm

The True f/stops

BIG APERTURE

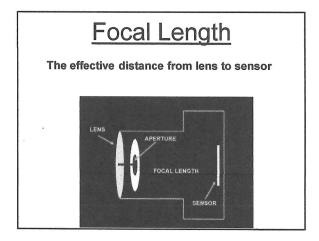
SMALL APERTURE

f/stops: 1.0 1.4 2.0 2.8 4.0 5.6 8.0 11 16 22...

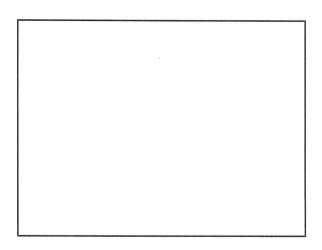
More light comes in

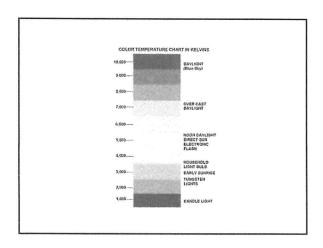
Less light comes in

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- A. If mid-day sunlight is about 5500 Kelvin, which is a "warmer-colored" light?
- √a. 3000 K
 - b. 7000 K
 - c. 3000 K, but only if the light is diffused
 - d. it depends on the color of the subject



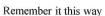


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- Q. To cause images to be "warmer", change the camera's Kelvin setting to:
 - a. a lower Kelvin setting
 - b. a higher Kelvin setting
 - c. a Kelvin setting equal to the temperature of the light shining on the subject
 - d. a Kelvin setting no more than 20% below the current setting in the camera

Shifting the Kelvin settings Can cool down or warm up an image 2500k Lower Kelvin = more blue Shifting the Kelvin settings 10000k Higher Kelvin = more red

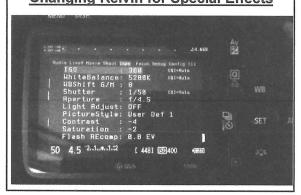
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To make it warmer, raise the temperature

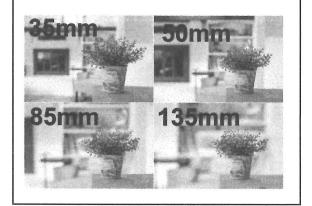
Changing Kelvin for Special Effects



- Q. To increase the Depth of Field:
 - a. zoom in to a close up
 - b. zoom out to a wider shot
 - c. change to a higher ISO
 - d. zoom to a setting equal to the lens focal length

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 - c. change f/stop to a value less than f/4
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Small f/stop number = short Depth of Field
(f/1.4, f/2.8, f/4.0)



Large f/stop number = long Depth of Field

(f/11, f/16, f/22)



A. A camera's ISO setting:



- a. sets the speed that the camera records the image
- b. adjusts the sensor to match the focal length of the lens
- c. sets the sensitivity of the sensor to light
 - d. changes the sensor's pixel size

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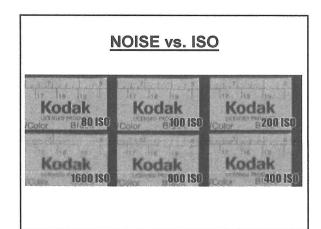


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- Q. Changing the ISO setting from ISO 200 to ISO 400:
 - a. increases the camera's light sensitivity by 200 times
 - b. increases the camera's light sensitivity by 50%
 - c. increases lens aperture by 2 times
 - d. doubles the camera's light sensitivity

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- A. What is the ISO setting at which noise typically starts to be objectionable in an image made with a "cropped" size sensor?
 - a. ISO 200
 - b. ISO 400
- √c. ISO 800
 - d. ISO 1600



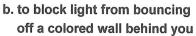
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- Q. How would you overcome "raccoon eyes" caused by overhead sunlight?
 - a. Use a lower f/stop to brighten the dark areas



- b. Use a higher f/stop to darken the bright areas
- c. Use a flash even in bright sunlight
- d. Have the subject tilt their head upwards

- Q. What is the main use for this panel?
- a. to make the light brighter





- c. to add catchlights in eyes
- d. to reduce the amount of light bounced off the ceiling

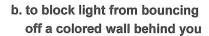
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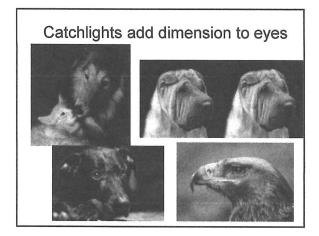


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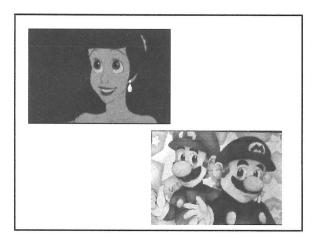
Catchlights add dimension to eyes





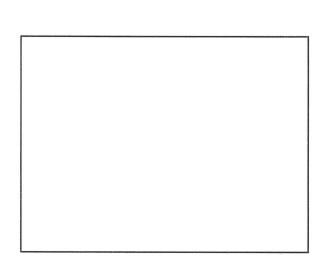


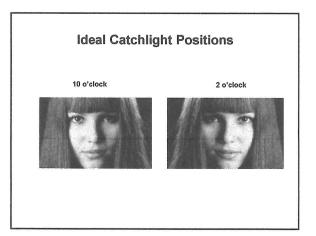
- Q. What is the ideal position for catchlights in eyes ?
 - a. center of the eye
 - b. 10 or 2 o'clock position in the eye
 - c. on the same side as the flash
 - d. 12 o'clock position in the eye

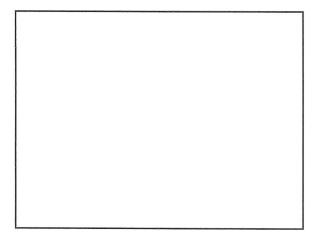


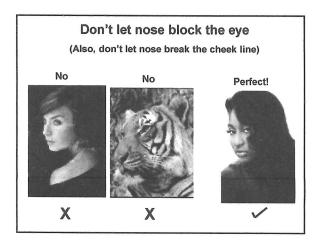
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Q. In portraits, what is a good technique related to the nose?

- a. don't photograph noses in profile view
- b. don't show both nostrils
- c. don't let nose block part of an eye
- d. don't photograph a nose straight ahead

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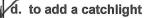


- b. don't show both nostrils
- c. don't let nose block part of an eye
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- Q. Why would you hold a flash like this?
- a. to check the flash is working
- b. to provide light to help the autofocus in a dark room
- c. to reduce the amount of light bounced off the ceiling
- d. to add a catchlight



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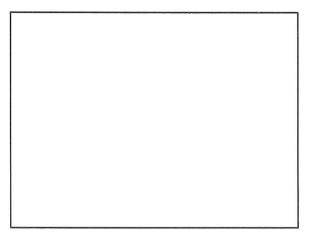


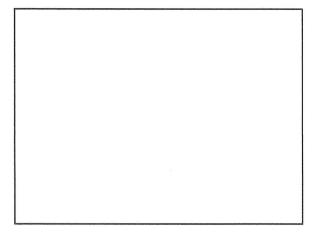


A. Where should a person be placed when using a tree to block overhead bright sun?



- a. In shadow, near the trunk of the tree
- b. In shadow, near the outer edge of foliage
 - c. In the darkest part of the shadow
 - d. In the sunlight, but near the tree





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- Q. Color film was first available in 1935. When was the first color image made?
 - a. 1877
 - b. 1933
 - c. 1940
 - d. 1961

A. Color film was first available in 1935.
When was the first color image made?

a. 1877

- b. 1933
- c. 1940
- d. 1961

FINAL QUESTION

Color image made with B&W "film" in 1877!



Using color filters of: Red Green Blue Q. Generally, which is the best way to expose for this high-contrast scene?



- a. Expose for the bright parts
- b. Expose for the shadows
- c. Expose for the mid-tone parts
- d. Expose for the darkest parts

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