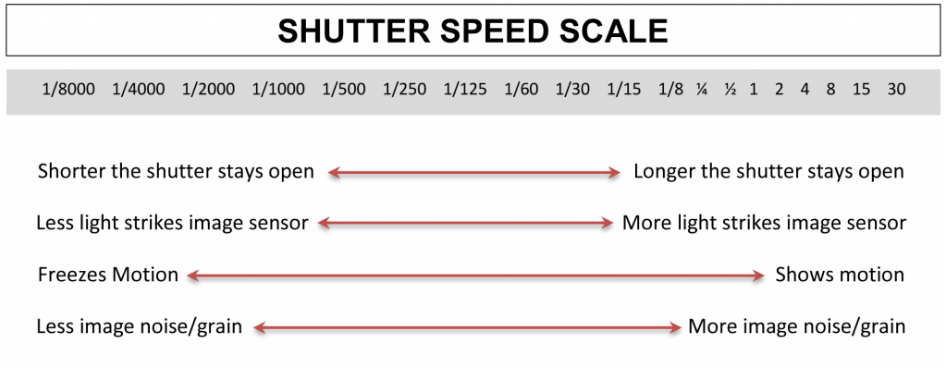
Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Controlling Light | Shutter Speed + Aperture | Study Guide**

To make a correct exposure, so that your picture is neither too light nor to dark, you need to control the amount of light that reaches the digital image sensor.

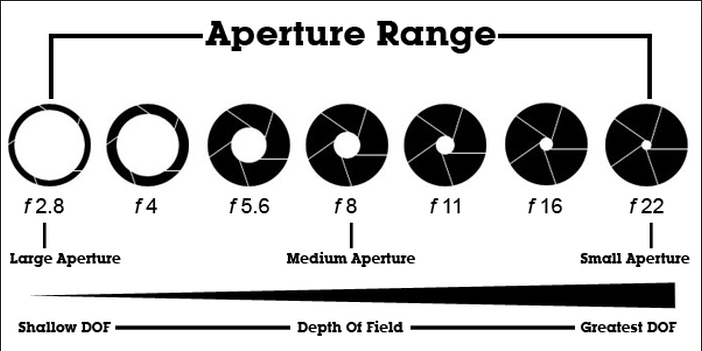
**Shutter Speed = Exposure Time**

The shutter speed (the amount of time the shutter remains open) is one of two controls your camera has over the amount of light entering the camera.

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**Aperture = f-Stop**

The aperture size is the other light control (how big or small is the hole that allows light in the camera).

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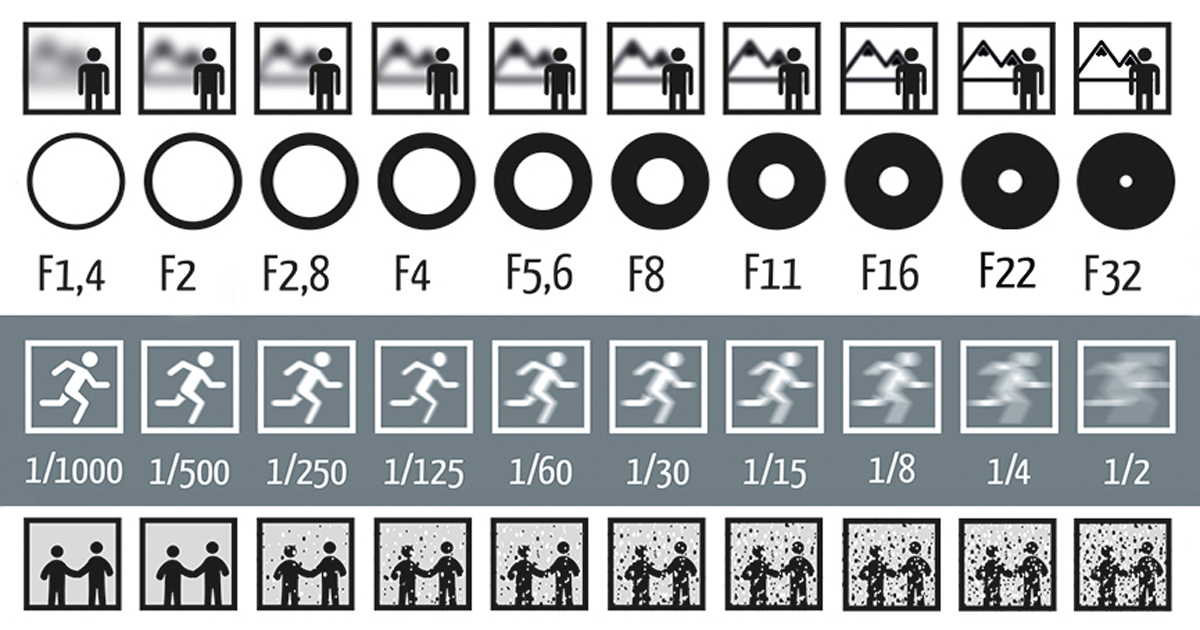
By controlling the amount of light that enters the camera, the shutter speed also affects the way that moving objects are shown.

A fast shutter speed can freeze motion–1/250 sec. is more than fast enough for most scenes. A very slow shutter speed will record even a slow-moving object with some blur.

**Shutter Speed + Aperture**

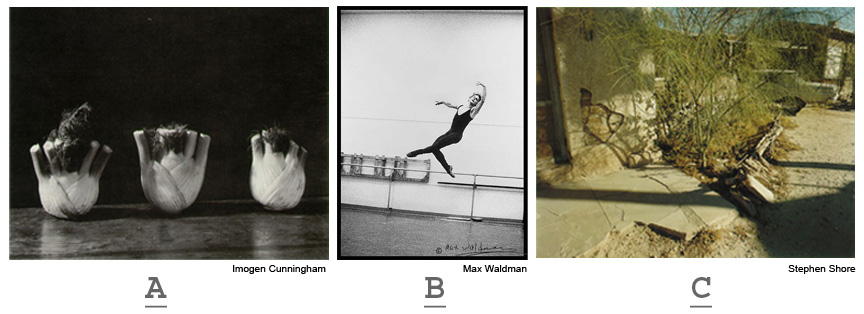
The **shutter speed and aperture** work to together to achieve a correct exposure. As the shutter speed gets faster, letting less light hit the sensor, the aperture opening gets larger to make up the difference. If you want to use a small aperture opening, the shutter speed will become slower to compensate.  For a correct exposure the shutter speed and the aperture opening need to work together to allow the correct amount of light strike the sensor.

**Aperture – F-stop**

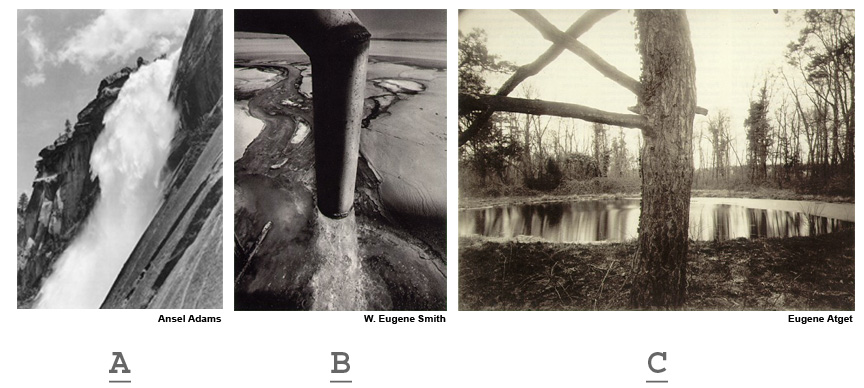
****

**Shutter Speed**

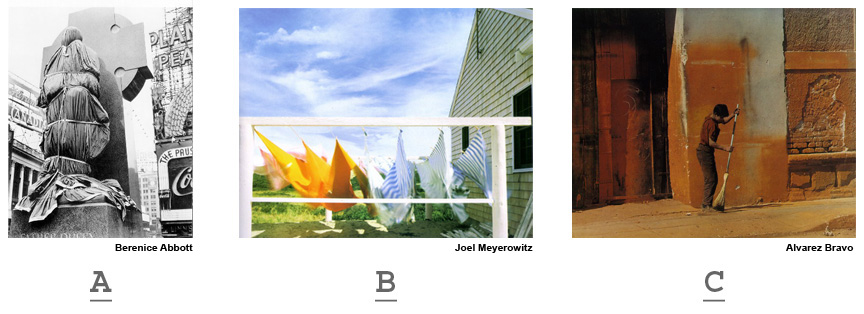
1. Which photograph below best illustrates a fast shutter speed?



2. Which photograph below best illustrates a fast shutter speed?



3. Which photographs below best illustrates a slow shutter speed?

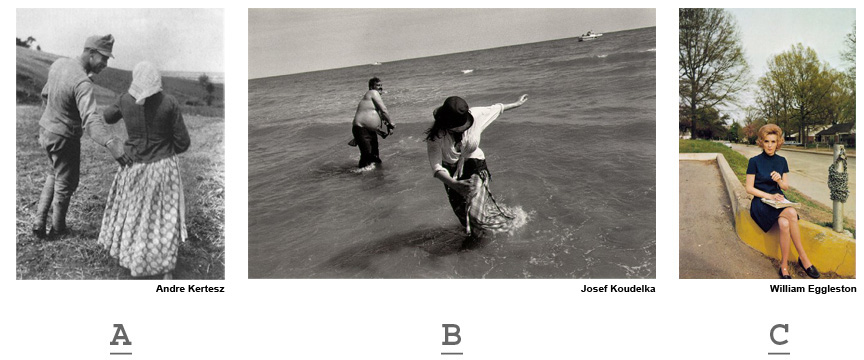


4. Which photograph below best illustrates a slow shutter speed?

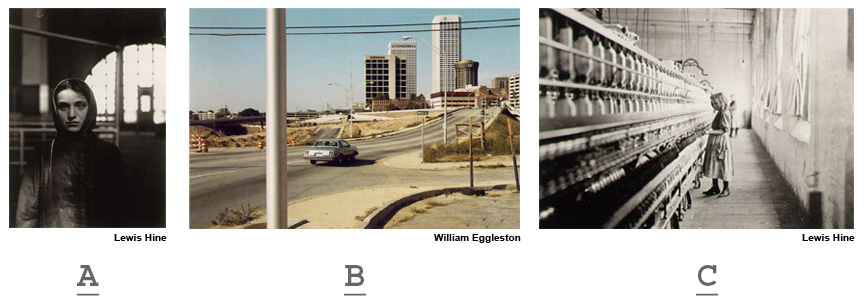


5. Which photograph below best illustrates a large aperture opening?

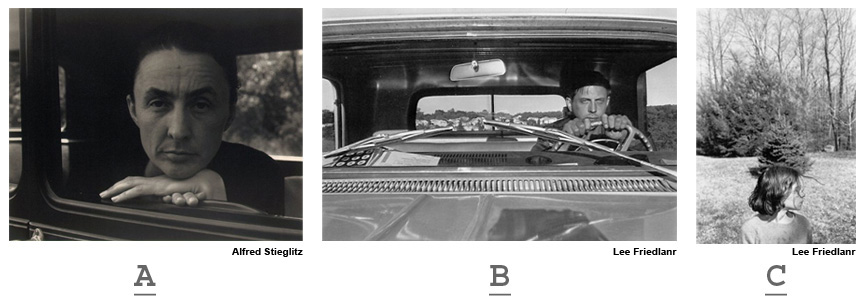
6. Which photograph below best illustrates a large aperture opening?



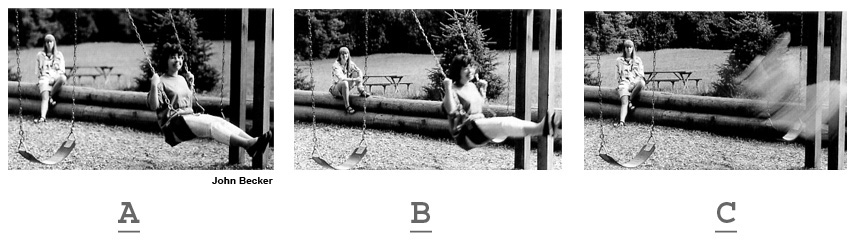
7. Which photograph below best illustrates a small aperture opening?



8. Which photograph below best illustrates a small aperture opening?



9. Which of the following photographs best illustrates a fast shutter speed with a large aperture opening?



10. Which of the following photographs best illustrates a slow shutter speed with a small aperture opening?

