Reading and displaying images

We will initially work with images that have brightness values ranging from black (0.0) to white (1.0), with shades of gray in between (0.0 < b < 1.0)

Read & display kittens.png image in the assign3_exercises folder

```matlab
>> image = imread('kittens.png');
>> image = double(image)/255;
>> imshow(image);
>> imtool(image);
```

- what is the image size?
- observe pixel info as you move the cursor
- explore the pixel region tool
- zoom in, zoom out & pan

Exercises with images

Create a new image named clip that just contains the face of the rightmost kitten

Create a copy of image with a patch of uniform brightness on one of the kittens (any kitten & any brightness)

Create a new image named combo that's twice the size of image and contains these 4 sub-images

<table>
<thead>
<tr>
<th>original image</th>
<th>mirror image</th>
</tr>
</thead>
<tbody>
<tr>
<td>upside-down</td>
<td>negative</td>
</tr>
</tbody>
</table>

Matrices 6-1

Matrices 6-2