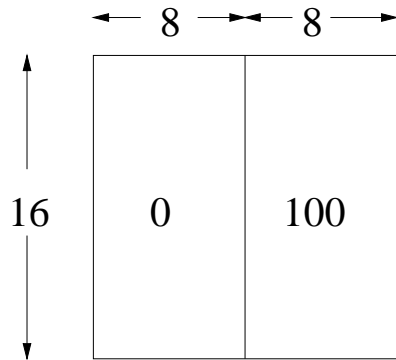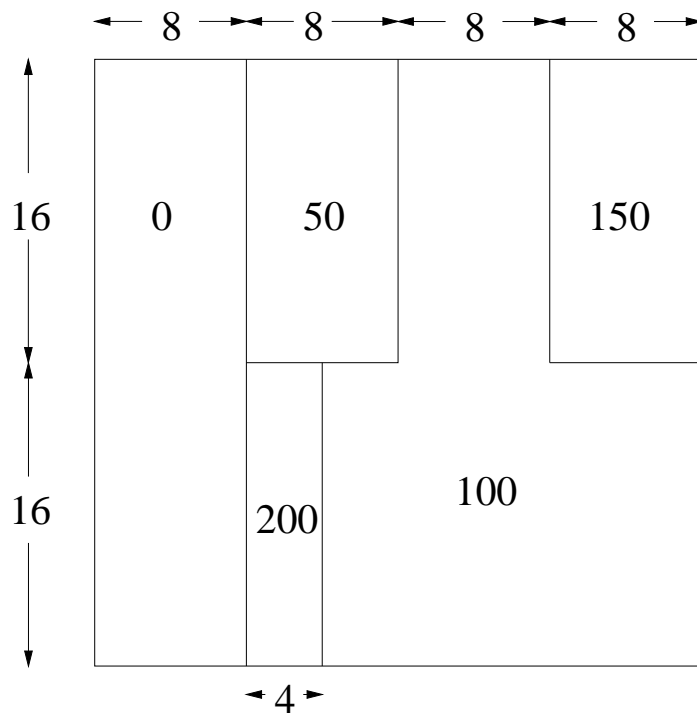**Motion compensation question:**
The 16x16 block to be motion compensated looks like this:

The search window of size 32x32 is composed of 5 different regions of constant intensity, and looks like this:

(a) If the error metric is chosen to be the sum of the absolute values of the pixel-by-pixel differences, what block in the search window will provide the best match? If there is more than one block that provides the best match, indicate all the blocks in the search window which provide the best match.
(b) Repeat question (a) for the MSE error metric.