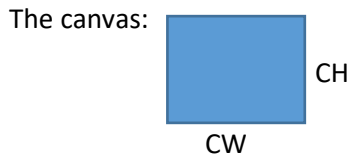
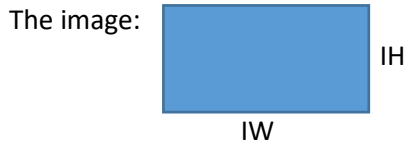


## aspect ratio

We want to paint the image on the canvas using the correct aspect-ratio (without distorting the image).

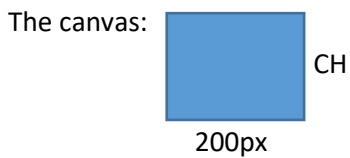
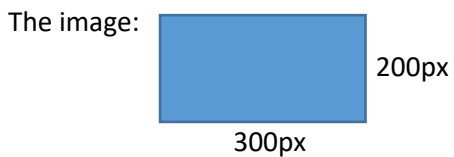


The canvas will have a predetermined width

$$CH = \frac{IH * CW}{IW}$$

The formula for calculating the height of the canvas

Example:



In this example, we want to calculate what the height of the canvas should be so that when we draw the picture on it will maintain its ratio.

We will use the formula to calculate the height of the canvas above:

$$CH = \frac{200 * 200}{300}$$
$$CH = 133px$$

So, we set the canvas height to be 133px.