

Solution

There are **3860** total parameters. That's 196 times fewer parameters! Here's how the answer is calculated:

$$(8 * 8 * 3 + 1) * 20 = 3840 + 20 = 3860$$

That's **3840** weights and **20** biases. This should look similar to the answer from the previous quiz. The difference being it's just **20** instead of (**14 * 14 * 20**). Remember, with weight sharing we use the same filter for an entire depth slice. Because of this we can get rid of **14 * 14** and be left with only **20**.