

a dataset of 1000 samples. Since 128 does not evenly divide into 1000, you'd wind up with 7 batches of 128 samples, and 1 batch of 104 samples. (7*128 + 1*104 = 1000)

In that case, the size of the batches would vary, so you need to take advantage of TensorFlow's tf.placeholder() function to receive the varying batch sizes.

Continuing the example, if each sample had |n_input = 784 | features and n_classes = 10 possible labels, the dimensions for features would be [None, n_input] and [labels] would be [None, n_classes].

```
# Features and Labels
features = tf.placeholder(tf.float32, [None, n input])
labels = tf.placeholder(tf.float32, [None, n classes])
```

What does | None | do here?

The None dimension is a placeholder for the batch size. At runtime, TensorFlow will accept any batch size greater than 0.

Going back to our earlier example, this setup allows you to feed | features | and | labels | into the model as either the batches of 128 samples or the single batch of 104 samples.

Question 2

Use the parameters below, how many batches are there, and what is the last batch size?

features is (50000, 400)

labels is (50000, 10)

batch_size is 128



↑ This quiz is no longer available

This quiz is unavailable because the Nanodegree program term has come to