✓ **Congratulations! You passed!**

Grade	Latest Submission	To pass 80% or	
received 85.71%	Grade 85.71%	higher	**Go to next item**

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1. What is the name of the API at the heart of TensorFlow.js which allows things like layers to be used?   **1 / 1 point**

   ⦿ Core API

   ○ TFJS API

   ○ JS API

   ○ Core TF API

   ✓ **Correct**

2. How does TensorFlow.js use GPU acceleration in the browser?   **1 / 1 point**

   ○ You have to install GPU runtimes for each browser, and explicitly use them

   ⦿ You access GPU through WebGL in the browser

   ○ It works natively through GPU libraries in TensorFlow

   ○ It doesn't

   ✓ **Correct**

3. How can you use a TPU with TensorFlow.js?   **0 / 1 point**

   ⦿ Only using Colab

   ○ You can't

   ○ You have to serve your JS from a GCP instance

   ○ You can use Node.js on GCP and access TPU instances

   ⊗ **Incorrect**

4. Which of the following lines of code will correctly add a single dense layer containing a single neuron that takes a numeric input to a model using JavaScript?   **1 / 1 point**

   ○
   ```
   1    model.add(tf.layers({units: 1, inputShape: [1,1]}))
   ```

   ○
   ```
   1    model.add(tf.layers.dense({units= 1, inputShape: [1]}));
   ```

   ○
   ```
   1    model.add(tf.layers.dense({units: 1, inputShape:= [1]}));
   2
   ```

   ⦿
   ```
   1    model.add(tf.layers.dense({units: 1, inputShape: [1]}));
   ```

5. When creating data to input to a model using Python you could use a numpy array. How would you do it in JavaScript?

1 / 1 point

○ Use a numpyjs array

⦿ Use a tensor2d containing the data and the shape of the data

○ Use a tensor2d contining a numpyjs array

○ Use a tensor2d containing the data

6. If I train a model to detect a linear relationship (i.e. Y=2X-1), what line of code would output a prediction from that model for Y where X=10?

1 / 1 point

⦿

```
1    alert(model.predict(tf.tensor2d([10], [1,1])));
```

○

```
1    alert(model.predict(tf.tensor2d([10])));
```

○

```
1    alert(model.predict([10], [1,1]));
2
```

○

```
1    alert(model.predict(10));
```

7. When training a model, if I want to log training status at the end of an epoch, what is the name of the callback event you want to capture?

1 / 1 point

○ EpochEnded

⦿ onEpochEnd

○ EpochEnd

○ OnEpochEnded