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| **Mission 8 Assignment** | **Name:** |
| **Pre-Mission Preparation** | |
| In the last mission the CodeBot used line sensors to detect reflected light. What do you remember about line sensors? |  |
| **Mission 8 Checks** | |
| Objective #1  A less reflective surface, like a black line, results in \_\_\_\_\_\_\_\_ values, while a more reflective surface, like a white floor, results in \_\_\_\_\_\_\_\_\_\_ values.  How can you clear the console window? Check the hints! |  |
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| Objective #2  What is your average value for the surface?  What is your average value for the black line?  What value did you select for the threshold? |  |
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| Objective #3  After adding the brake function, try different speeds. What is your top speed for staying on the board?  What is the editor shortcut for commenting out a line of code? (Check the hints) |  |
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| Objective #4  This objective uses a default parameter. Arguments can be passed as keyword or positional. Look in the toolbox for the difference between the two. | Keyword argument: |
| Positional argument: |
| Objective #5  What does this code do: sensors = []  What does this code do: sensors.append(is\_line)  What is returned at the end of the new function? |  |
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| Objective #6  What is used to turn on the line sensor LEDs?  What does the built-in function **any()** do? |  |
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| **Post-Mission Reflection** | |
| What is something you learned about yourself during this mission? |  |
| This mission will use sensors to keep the CodeBot inside the lines. We participate in many activities that require us to stay in a well-defined area. Sports, for example. List some activities that or real-world applications that have boundaries: |  |