**Test Table for Driver Class, and therefore Test Method:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Expected output** | **Actual output** | **Comment** |
| test(5) | 5 different questions  (Ex. -9+2) | 4 exactly the same questions. | I need to fix this. The issue likely lies with the fact that I generate the random numbers once and only do that before the for loop for the questions comes into play. The issue with it generating 4 questions likely has to do with the fact that the for loop hasn’t been written correctly and runs 1 fewer times than would have worked well. |
| test(“5”) | Error -- can’t pass String to int | Error | Works as intended. |
| test(5.0) | Error -- can’t pass double to int | Error | Works as intended.  Though, maybe, if I have time, I should write another constructor (overloading), and make this one cast the double into an int. |
| test(0) | Error | Error | Works as intended. |

**Test Table for gradeBoundaries Method:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Input** | **Expected output** | **Actual output** | **Comment** |
| gradeBoundaries(0.84) | “B” | “B” | Works as intended. |
| gradeBoundaries(1.0) | “A+” | “A+” | Works as intended. |
| gradeBoundaries(0.99) | “A+” | “A+” | Works as intended. |
| gradeBoundaries(0.60) | “D” | “D” | Works as intended. |
| gradeBoundaries(0.59) | “F” | “F” | Works as intended. |
| gradeBoundaries(1) | “A+” | “A+” | Works as intended. |
| gradeBoundaries(2) | “A+” | “A+” | Works as intended. However, as this grade is impossible, maybe I should go into the method and make it so any grade above 1.0 returns “this grade is not possible”. |
| gradeBoundaries(1.1) | “A+” | “A+” | Works as intended. However, as this grade is impossible, maybe I should go into the method and make it so any grade above 1.0 returns “this grade is not possible”. |
| gradeBoundaries(“X”) | Error | Error | Works as intended. |

**Test Table for addition() Method:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Input**  (All of the below are executed with 5 questions, which is the parameter I am working with in troubleshooting the test() method.) | **Expected output** | **Actual output** | **Comment** |
| addition(1) | “What is (Random number between -10 and 10) + (Second  Random number between -10 and 10)”  5 times. | “What is 4+8?”  “What is -1+1?”  “What is 9+-8?”  “What is 9+-2?”  “What is 8+8?” | Works as intended. |
| addition(A) | Error | Error | Works as intended. |
| addition(3) | “What is (Random number between -1000 and 1000) + (Second  Random number between -10 and 10)  5 times. | “What is -298+734?”  “What is 328+348?”  “What is 926+-187?”  “What is -361+-772?”  “What is 823+191?” | Works as intended. |
| addition(400) | 0 | 0 | Works as intended. Will not ever reach this output, since test() method does not let the difficulty be less than 1 or greater than 4. |
| addition(1.0) | Error | Error | Works as intended. Will not ever reach this output, since test() method does not let the difficulty be a double. |

**Test Table for division() Method:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Input**  (All of the below are executed with 5 questions, which is the parameter I am working with in troubleshooting the test() method.) | **Expected output** | **Actual output** | **Comment** |
| division(1) | “What is (Random number between -10 and 10) + (Second  Random number between -10 and 10)”  5 times. This equation will be able to be divisible without remainder. | “What is 7/7?”  “What is 8/-8?”  “What is -4/4?”  “What is -6/1?”  “What is 9/9?” | Works as intended.  However, maybe I should increase the amount that accounts for an easy question if I have time so I don’t get problems that are divisible by each other nearly every time? |
| division(A) | Error | Error | Works as intended. |
| division(3) | “What is (Random number between -1000 and 1000) / (Second  Random number between -10 and 10)  5 times. This equation will be able to be divisible without remainder. | “What is -55/-55?”  “What is 918/51?”  “What is -784/196?”  “What is -754/29?”  “What is -346/-1?” | Works as intended. |
| division(400) | 0 | 0 | Works as intended. Will not ever reach this output, since test() method does not let the difficulty be less than 1 or greater than 4. |
| division(1.0) | Error | Error | Works as intended. Will not ever reach this output, since test() method does not let the difficulty be a double. |