


☐ TT5L (Thursday)

5. What is the output of add(5, 5)? (1 Point) * 

10

6. What is returned by subtract(10, 15)? (1 Point) * 

-5

7. What does multiply(3, -3) return? (1 Point) * 

-9

8. The function divide() always returns an integer. (1 Point) *



☐ True

☒ False

9. What is the correct output of modulus(14, 4)? (1 Point) *



2

10. What exception is raised when you run `divide(1, 0)`?

(1 Point) * 

ValueError: Cannot divide by zero.

11. `test_divide_by_zero()` verifies exception handling (1 Point) *



☒ True

☐ False

12. You notice that `test_add()` only tests positive and negative values. You want to test the **identity property** of addition. Which of the following test cases best represents this?

(1 Point) * 

☐ `self.assertEqual(add(1, 1), 2)`

☐ `self.assertEqual(add(5, 5), 10)`

☒ `self.assertEqual(add(0, 99), 99)`

☐ `self.assertEqual(add(-1, -1), -2)`

13. To test **equivalence partitioning** in `divide()`, which test checks behavior when a negative divisor is used? (1 Point) *



- ☒ `self.assertEqual(divide(10, -2), -5.0)`
- ☐ `self.assertEqual(divide(-10, 2), 5.0)`
- ☐ `self.assertEqual(divide(0, 10), 0)`
- ☐ `self.assertEqual(divide(2, 2), 1)`

14. All current modulus tests use even numbers as divisors. What result would you get from `modulus(11, 3)`? (1 Point) *



2

15. You're conducting **white-box testing** to ensure the `if b == 0` block in `divide()` is covered. Which test achieves this?

(1 Point) *

- ☐ `self.assertEqual(divide(0, 5), 0)`
- ☐ `self.assertRaises(ValueError, divide(5, 0))`
- ☒ `with self.assertRaises(ValueError): divide(5, 0)`

☐ `self.assertEqual(divide(5, 1), 5)`


16. The following test method is added, but something is wrong:

```
def test_divide_typo(self):  
    divide(10, 2)
```

What is the **problem** with this test?

(1 Point) * 

- ☐ *divide() function is undefined*
- ☐ *There is a missing import*
- ☒ *No assertion is made to check correctness*
- ☐ *The function call is invalid*

17. You are asked to verify that the `subtract()` function **never returns a string**. Write a test to check the return type of `subtract(10, 2)`. What assertion would pass? (1 Point) * 

- ☒ `self.assertTrue(isinstance(subtract(10, 2), int))`
- ☐ `self.assertFalse(type(subtract(10, 2)) == int)`
- ☐ `self.assertEqual(subtract(10, 2), "8")`


☐ self.assertRaises(TypeError, subtract(10, 2))

18. You add the following test:

```
self.assertEqual(modulus(5, 10), 5)
```

What is the actual output when this test is run?

(1 Point) * 

- ☐ It fails, returns 0
- ☒ It passes 
- ☐ It raises a ZeroDivisionError
- ☐ It returns None

19. You're told one of the tests is written to **intentionally fail**.

Which test below would definitely fail? (1 Point) * 

- ☐ self.assertEqual(add(1, 1), 2)
- ☐ self.assertEqual(divide(4, 2), 2)
- ☒ self.assertEqual(modulus(10, 3), 2)
- ☐ self.assertEqual(subtract(5, 2), 3)


20. A developer accidentally changes this line:

```
def multiply(a, b):  
    return a * b + 1
```

Which test will **fail** after this change?

(1 Point) * 

- ☐ self.assertEqual(multiply(3, 3), 9)
- ☐ self.assertEqual(multiply(0, 3), 0)
- ☐ self.assertEqual(multiply(5, 5), 25)
- ☒ All of the above

21. Upload your Script here (test_calculator.py) -> SAVE IT AS PDF (1 Point) (Non-anonymous question ⓘ) * 

 test_calculator.pdf

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