Grade 7-8 Sample test

1. User enters "3.9". You want to round it down to 3. Which function do you use?

- A) int(3.9) (Truncates the decimal)
- B) float("3.9")
- C) str(3.9)
- D) roundup(3.9)

2. Analyze this code. What is the final data type of result?

Python

```
num = "100"

result = int(num) / 2
```

- A) Integer
- B) String
- C) Float (Division / always results in a float in Python, 50.0).
- D) Boolean

3. Write the line of code that asks for a number, converts it to an integer immediately, and saves it.

- A) num = input(int())
- B) num = int(input("Enter number: "))
- C) num = input("Enter number: ").int
- D) int num = input()

4. A student writes: print("Score: " + str(100)). Another writes: print(f"Score: {100}"). Which is better?

- A) The second one (f-string), because it is cleaner and doesn't require manual str() casting.
- B) The first one, because it clearly shows the casting.
- C) Both are wrong.
- D) Code without numbers is best.

5- What is the final data type of result?

Python

```
part_a = "10"

part_b = "5"

result = part_a + part_b
```

A) Integer (15)

B) Float (15.0)

C) String (The + operator concatenates strings, resulting in "105").

D) Error (You cannot add two strings together).

6- What is the final data type of total?

Python

```
count = 5

total = count * 2.0
```

A) Integer (10)

B) Float (Multiplying an integer by a float always results in a float, 10.0).

C) String ("10.0")

D) Boolean