

Data Type Review Questions

1. In the table below, indicate if the identifiers provided are valid or invalid, and if invalid, what makes the identifier invalid.

Identifier	Valid or Invalid?	What makes it invalid?
#age		
2cool		
Boys2men		
charlie brown		
java class		
alg-2		
StripesN*s		
float		
bOoLeAn		

2. In the table below, fill the blanks provided.

Data Type	Size (bytes)	Example values
		'a', '*'
int	4	
	2	1000, -27
float		
	8	-1234567.93, 1.2×10^{50}
	1/8 (1 bit)	true, false
long	8	
byte	1	

3. Why were Java Escape Sequences like `\t` created? Provide an example of why one would be necessary.

4. Describe how `print` is different from `println`. How is `printf` different from both?

5. What can `Format` do that `printf` cannot? Explain.

6. Solve the following. Be sure the answer is written to indicate its data type.

- `(int)('A')`
- `7*3.0`
- `13%5`
- `(double)5/3`