

CSCI 145 Quiz 1 practice questions on expressions, variables, and functions **ANSWER KEY**

1. Evaluate these Python expressions, writing both the value and its type in each blank (for example: 6.0, float):

9 * 2.0 - 3	<u>15.0, float</u>	-10 // 3	<u>-4, int</u>
10 // 3	<u>3, int</u>	10 % 4	<u>2, int</u>
2 ** 5	<u>32, int</u>	10 % 5	<u>0, int</u>
5 + 3 * 2	<u>11, int</u>	(4 + 3.0) / 2	<u>3.5, float</u>
True or False	<u>True, bool</u>	not (5 > 2)	<u>False, bool</u>

2. Consider each code snippet below and evaluate the asked for variable (you do not need to specify the type).

```
price = 20
discount = price / 2
price = price - discount
```

The value of discount is 10.0

```
word = "ab"
word = word * 2
word = word + "c"
```

The value of word is 'ababc'

```
total = 10
extra = total
total = total + 5
extra = extra + 2
```

The value of total is 15

3. Write a Python function average that computes the average of two parameters a and b. Return the average as a float. For example:

```
>>> average(5, 8)
6.5
```

```
def average(a, b):
    return (a + b) / 2
```