# CITP 155 – Programming I

## Data Types Worksheet

## Graded Activity (20 points)

After reading the C# tutorial articles covering Data Types, respond to the following. Leave the questions in a black font. Enter your answers in a blue font.

The articles are found at the following links:

<https://csharp.net-tutorials.com/data-types/introduction/>  
<https://csharp.net-tutorials.com/data-types/booleans/>  
<https://csharp.net-tutorials.com/data-types/integers/>  
<https://csharp.net-tutorials.com/data-types/floating-points/>  
<https://csharp.net-tutorials.com/data-types/the-char-type/>  
<https://csharp.net-tutorials.com/data-types/strings/>  
<https://csharp.net-tutorials.com/data-types/working-with-dates-time/>  
<https://csharp.net-tutorials.com/data-types/nullable-types/>  
<https://csharp.net-tutorials.com/data-types/implicitly-typed-variables-the-var-keyword/>  
<https://csharp.net-tutorials.com/data-types/the-dynamic-type/>  
<https://csharp.net-tutorials.com/data-types/the-expandoobject/>  
<https://csharp.net-tutorials.com/data-types/anonymous-types/>

1. What values can a Boolean data type hold?
2. What is the default value of a Boolean by default?
3. What is an integer data type?
4. An Int16 can hold values between what two numbers?
5. Why is dividing two integers probably not the best practice?
6. What is a floating point data type?
7. What are three types of floating point data types?
8. What data type is the best for storing values of money (financial data)?
9. What does the char data type hold?
10. According to the article, how many different Unicode characters are there?
11. What does a string data type hold?
12. What does it mean to concatenate strings and what character do you use to do this?
13. Using a DateTime object, what helping property retrieves the current date and time?
14. What format string command will produce a date in this format: **10.01.2020 12:45**?
15. What does NULL mean?
16. Can an integer be NULL?
17. What does the var keyword allow?
18. What does the dynamic keyword allow?
19. What does the ExpandoObject allow?
20. What do anonymous types allow?