# **Quiz 3-2: Data Types**

1. You are designing a table that will hold data regarding financial transactions. You need to track the number of items sold by all employees. After you evaluate the business specifications, you find that there are several thousand items in the catalog, and employees tend to work 10-15 years at the company. Which of the following data types would be a safe choice to hold all the values that might occur?
   1. **int, bigint**
2. You are creating a table that will track scientific data, and the users have specified that the data must hold a value with a precision of 5 and a scale of 2. Which of the following data types can you use?
   1. **decimal, numeric**
3. You are working with a financial company that wants to be able to perform mathematical functions against values in the database you create for them. The values may run into the millions of dollars. Which data type should you choose?
   1. **money**
4. Floating point data is exact.
   1. **False**
5. Your client calls you and says that the application they are using against a SQL Server database system is rounding certain values to zero. One possible cause is that the program is converting from float to a numeric value, and has a precision of 23.
   1. **True**
6. You are designing a system that needs to store the date an item was removed from inventory. What is the best data type to use?
   1. **date**
7. You are reviewing a table design from another developer and notice that she has chosen to use the time data type. There may need to be system or code changes because the system will be used across the entire United States.
   1. **True**
8. You are designing a system that will be used to record physics data, and you want to record the names of elements (such as phosphorus or gold) using their letter abbreviations only. Which data type should you choose?
   1. **varchar**
9. You have been asked to design a table that will consume the least possible space on the hard drive. A value is required to store whether a device is running or whether it is turned off. From time to time, the state of the device may be unavailable. Which data type should you use?
   1. **bit**
10. Unicode data types in SQL Server most often begin with the letter "n"
    1. **True**