Quick Concepts Check Answer Key Exploring Microsoft Excel, Chapter 2

1. Describe happens when you copy a formula containing a relative cell reference one row down.

The cell references in the copied formula adjust one row down. For example, if the original formula is =B1+C1, the copied formula would be =B2+C2. The column letters remain the same while the row numbers change relative to the direction (down) that you copy the formula.

2. Explain why you would use an absolute reference in a formula.

You would use an absolute reference when you want a permanent reference to a particular cell and don't want that reference to change when you copy the formula to another location.

3. Describe the benefits of using a mixed reference.

When applicable, mixed references can be used in place of absolute references as a method of shortening the length of the formula.

4. Describe two different methods of entering a function directly in a cell.

Formula AutoComplete provides a list of function names as you type. Function ScreenTips provide the syntax of a function as you type it, where the name of the argument you are currently typing is bold.

5. Outline the type of data you enter in a Function Arguments dialog box, and list four things the dialog box displays.

You enter the required and optional arguments for a particular function. The dialog box tells you the values stored in the respective arguments, the function results, a description of the active argument, a link to get help on the function, and a description of the function itself.

6. Explain the difference between the COUNT and COUNTA functions.

The COUNT function counts the number of cells in a range that contain a numeric value. The COUNTA function counts the number of cells in a range that are not blank.

7. Explain the difference between using the TODAY function and manually entering a date in a cell.

Using the TODAY function will insert the current date in a cell based on the corresponding serial number. This date will be updated every time the worksheet is opened or printed. A date that is manually typed in a cell is static and will not change.

8. Describe a situation in which an IF statement could be used.

An IF statement could be used to calculate overtime in a payroll worksheet. IF the employee works over 40 hours, he is eligible for overtime. If not, he receives standard pay.

9. Describe how you should structure a vertical lookup table if you need to look up values in a range.

The lookup values need to be in the first column of the lookup table, and if the last optional argument for range_lookup is TRUE (or omitted), then the first column of the lookup table should be sorted in ascending order.

10. Explain why the PMT function often produces negative results.

The PMT function often produces negative results because Excel understands accounting cash flow. Since the PMT function yields a periodic payment, this would be a negative cash flow to the consumer.