Review Quiz: Preparing Data

Your Score: 50% Your score indicates that you would benefit from reviewing topics in this lesson. Check the feedback below and when you are ready, take the quiz again.

✗   1. In which phase does the DATA step read rows from the input table?

    a. compilation

    b. execution

Your answer: a
Correct answer: b

The execution phase reads and processes rows from the input table and writes rows to the output table. The compilation phase does not read any rows from the input table.

✓   2. Which statement about the following program is true?

```
data australia;
    set orion.sales;
    where Country='AU';
run;
```

    a. The program does not execute because of syntax errors.

    b. The program reads a temporary table and creates a permanent table.

    c. The program reads a permanent table and creates a temporary table

Your answer: c
Correct answer: c

The SET statement reads the permanent **sales** table from the **orion** library, and the DATA statement creates a temporary table named **australia**.

✓   3. In the assignment statement below, what is the value of **AvgQ** for the row that is shown?

```
AvgQ=mean(Q1, Q2, Q3, Q4);
```

Q1	Q2	Q3	Q4
3	.	4	5

- *a.* 3
- *b.* 4
- *c.* . (missing value)
- *d.* The statement generates a syntax error.

Your answer: b
Correct answer: b

Missing values are ignored, so the mean is calculated as (3+4+5)/3.

✓   4. Which expression extracts the first five positions from **PostalCode**?

PostalCode
95602-6485
84604-9134
07090-5839
91001-6733
27513-4402

- *a.* `PostalCode5=substr(PostalCode, 5);`
- *b.* `PostalCode5=substr(PostalCode, 1, '-');`
- *c.* `PostalCode5=substr(PostalCode,1-5);`
- *d.* `PostalCode5=substr(PostalCode, 1, 5);` .

Your answer: d
Correct answer: d

This expression starts from position number 1 and reads 5 characters.

✕   5. Which statement about the following program is true?

```
data customer_age;
    set orion.customers;
    drop BirthDate;
    Age=yrdif(BirthDate, today(),"AGE");
run;
```

    a. **Age** is calculated as a precise number of years (including decimal values).

    b. **Age** is calculated and rounded to the nearest whole number.

    c. **Age** is not calculated because the DROP statement is before the assignment statement.

    d. **Age** is not calculated because the TODAY function does not include any arguments.

Your answer: b
Correct answer: a

The YRDIF function calculates a precise age based on each customer's birthday and the current date.

✖ 6. Which of the following is a way that the length of a new variable can be set in the DATA step?

    a. by the length of the variable the first time it is referenced in the DATA step

    b. in an assignment statement

    c. using a LENGTH statement

    d. all of the above

Your answer: c
Correct answer: d

All three are ways that the length of a new variable can be set in a DATA step.

✔ 7. What is the length of the variable **Type** that is created in the DATA step below?

```
data work.newloan;
    set cert.records;
    if code='1' then Type='Fixed';
    else Type='Variable';
    length type $ 10;
run;
```

    a. 5

    b. 8

    c. 10

    d. It depends on the first value of **Type** in the **cert.recrds** table.

Your answer: a
Correct answer: a

The first occurrence of **Type** in the DATA step is the assignment statement that follows THEN. The string 'Fixed' establishes the length as 5.

✓ 8. In the program below, what is the value of **Region** if **Area** is *nw*?

```
data work.bonus;
    set orion.sales;
        length Region $ 5;
    if Area in('NW', 'SW') then Region='West';
    else if Area in('NE', 'SE') then Region='East';
    else Region='Other';
run;
```

   a. West

   b. East

   c. Other

   d. missing

Your answer: c
Correct answer: c

The final ELSE statement does not include an IF expression, so because the first two conditions were false, **Region** is assigned a value of *Other*.

✗ 9. In the program below, what is the value of **Region** if **Area** is *SW*?

```
data work.bonus;
    set orion.sales;
        length Region $ 5;
    if Area in('NW', 'SW') then Region='West';
    if Area in('NE', 'SE') then Region='East';
    else Region='Other';
run;
```

   a. West

   b. East

   c. Other

   d. missing

Your answer: a
Correct answer: c

Region is initially assigned a value of *West*. However, the second IF statement does not include an ELSE statement and is therefore evaluated for all rows. Because it is false, the final ELSE statement assigns *Other* to the **Region** column.

✖　　10. True or False: This program will successfully create two tables, **east** and **west**.

```
data west east;
    set orion.sales;
    if Area in('NW', 'SW') then do;
        Region='West';
        output west;
    if Area in('NE', 'SE') then do;
        Region='East'
        output east;
run;
```

　　　a.　True

　　　b.　False

Your answer: a
Correct answer: b

This program will produce a syntax error because the END statement is missing after each THEN-DO block.

Close