Exercise 1

- Use SAS documentation or the SAS Help Facility to explore the *Zw.d* numeric format. What is it used for?

- Hint: Search for *Zw.d* or explore “Formats by Category.”

Exercise 1 Solution

•Use SAS documentation or the SAS Help Facility to explore the *Zw.d* numeric format. What is it used for?

•Hint: Search for *Zw.d* or explore “Formats by Category.”

The *Zw.d* format writes standard numeric data with leading zeros. It is similar to the *w.d* format except that *Zw.d* pads right-aligned output with zeros instead of blanks.

Exercise 2

Which FORMAT statement creates the output shown below?

a.

```
format Birth_Date Hire_Date mmddyy10.
       Term_Date monyy7.;
```

b.

```
format Birth_Date Hire_Date ddmmyyyy.
       Term_Date mmmyyyy.;
```

c.

```
format Birth_Date Hire_Date ddmmyy10.
       Term_Date monyy7.;
```

output

Birth_Date	Hire_Date	Term_Date
21/05/1969	15/10/1992	MAR2007

Exercise 2 solution

Which FORMAT statement creates the output shown below?

a.

```
format Birth_Date Hire_Date mmddyy10.
       Term_Date monyy7.;
```

b.

```
format Birth_Date Hire_Date ddmmyyyy.
       Term_Date mmmyyyy.;
```

c.

```
format Birth_Date Hire_Date ddmmyy10.
       Term_Date monyy7.;
```

output

Birth_Date	Hire_Date	Term_Date
21/05/1969	15/10/1992	MAR2007

Exercise 3

Which names are invalid for user-defined formats?

a. $stfmt
b. $3levels
c. _4years
d. salranges
e. dollar

Exercise 3 solution

Which names are invalid for user-defined formats?

a. $stfmt
b. $3levels
c. _4years
d. salranges
e. dollar

- **Character formats must have a dollar sign as the first character and a letter or underscore as the second character.**

User-defined formats cannot be given the name of a format provided by SAS.

Exercise 4

How is a value of *50000* displayed if the TIERS format below is applied to the value?

a. Tier 1
b. Tier 2
c. 50000
d. a missing value

```
proc format;
   value tiers  20000-<50000 ='Tier 1'
                50000-<100000='Tier 2'
                100000-250000='Tier 3';
run;
```

L4_E4.sas

Exercise 4 solution

- How is a value of *50000* displayed if the TIERS format below is applied to the value?

a. Tier 1
b. Tier 2
c. 50000
d. a missing value

```
proc format;
   value tiers  20000-<50000 ='Tier 1'
                50000-<100000='Tier 2'
                100000-250000='Tier 3';
run;
```

L4_E4.sas