Ans 1.

\* = this is an expression

‘hello’ = this is a value

-87.8 = this is a value

- =this is an expression

/ =this is an expression

+ =this is an expression

6 = this is a value

Ans 2.

A Variable is a container for storing data values while string is basically the type of information that you would like to store in the variable.

A string is used to store words or a sentence enclosed in “ “.

Example of variable - a=10

Example of string - b=”hello”

Ans3.

3 different data types include:-

Integer() - its used to store numeric data which doesn’t contain any decimal

Example- a=12

Float() –its used to store numeric data containing decimal values as well

Example - b= 3.14

Boolean() – it’s a special data type that only stores true or false as its values

Example - c = True

Ans 4.

An expression is made up of operators , operands , variables and values that are interpreted and produce some other value.

Expression statements are used to compute and write a value or to call a procedure.

Example - a =a-5

Ans 5.

A statement is used for creating variables (initialization and assignment) or for displaying values while an expression is used to produce a value after being interpreted

Example - a=4 =>(a statement)

a=a+6 =>(an expression)

Ans 6.

Given:-

bacon=22

bacon +1

so here the variable bacon still contains 22 because though we added 1 to bacon

but we didn’t store that incremented value anywhere.

Ans 7.

Given:-

‘spam’+ ‘spamspam’

We will get ‘spamspamspam’ as the output

Also we are given:-

‘spam’\*3

We will get ‘spamspamspam’ as the output

Ans 8.

eggs is a valid variable name while 100 is an invalid variable name because

as per rules , a variable name cannot start with a numeric value , therefore

eggs is a valid variable name while 100 is an invalid variable name.

Ans 9.

int() function is used to get the integer version of a value

float() function is used to get the floating point version of a value

str() function is used to get the string version of a value

Ans 10.

Given:-

‘I have eaten’+99+ ’burritos’ gives an error because we cannot concatenate string with an integer value.

We can solve the above error by converting the integer data type to string data type by the help of str() function.