

Question 1:

- A) To shorten and simplify the repetition of a particular code.

Question 2:

- A) A while statement will repeat code as long as its condition is true, a do while statement has an initial do section in the loop that occurs before the condition statement, this can be used to repeatedly prompt the user for a valid input, or to change the value relating to the condition statement.

Question 3:

- A) Prompter review

Question 4:

- A) A loop whose condition is always met, and as such, it will never cease

Question 5:

- A) The do while loop will execute 59 times

Question 6:

- A) Any value under 120, since the do statement decreases the value of x by 3, x will always be smaller than 120, so the condition is always met, and the loop never stops.

Question 7:

- A) Counters and accumulators are similar because they both use loop iterations to function, however, a counter is used to count the number of iterations occurring, while an accumulator is used to collect and sum numbers each iteration.

Question 8:

- A)

```
Int sum = 0;
for (int i = 3; i <= 10; i++) {
    Sum += i;
}
```

Question 9:

- A) Is the loop intended to run forever? Is the loop meant to have a fixed number of iterations?