1. How many iterations for each for-loop where max = 10 and incr = 3

a. for (int i = 0; i < max; i++)

10 times

b. for (int i = 0; i < max; i += 2)

5 times

c. for (int i = 0; i < max; i += incr)

3 times

d. for (int i = incr; i < max; i += incr)

2 times

e. for (int i = max; i > 0; i--)

10 times

f. for (int i = max; i < 0; i--)

0 times

g. for (int i = 1; i < max; i \*= incr)

3 times

h. for (int i = 0; i < max; i \*= incr)

Infinite loop

2. How will while (true) behave if the loop continues as long as the condition is true?

It will continue doing the loop until the while condition is false.

3. When should you use:

a. A for-loop?

When there is a specific amount of time you want the loop to run

b. A do-while-loop?

When you want your program to loop under certain conditions or when a condition has been met.