

Java
while loop worksheet #2

Name –

Period -

Trace the following code segments making a column for each variable **and show the output**. If a compile error exists, write "compile error". If a runtime error would result, write "runtime error". If an infinite loop occurs, write "infinite loop".

1. num
int num = 5;
while (num < 10)
{
 System.out.println(num);
 num += 2;
}

2. num dum
int num = 5;
int dum = 5;
while (num > -5 && dum < 10)
{
 System.out.println(num);
 num--;
 dum++;
}

3. num
int num = 1;
while (num <= 1)
 System.out.println(num);

4. num sum
int num = 2;
int sum = 10;
while (num < 10)
{
 sum += num;
 num++;
}

5. i num
int num = 0;
while (num < 30)
{
 for (int i = 0; i < 10; i++)
 {
 num += 3;
 if (num > 19)
 break;
 }
 num++;
}