**First Name\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Last Name\_\_\_\_\_\_\_\_\_\_\_\_\_**

# Recursion Review

Find the output to the following code segments. Use the recursive boxes shown in the PowerPoint of the Lesson to help you obtain the final result.

1. **int** result = identity(10);

System.out.println("The final answer is " + result);

**public** **int** identity(**int** num){

**if**(num < 1){

**return** 10;

}**else**{

**return** num + identity(num - 2);

}

}

2. **int** result2 = negative(-3);

System.out.println("The final answer is " + result2);

**public** **int** negative(int num){

**if**(num >= 20){

**return** -5;

}**else**{

**return** negative(num + 4) + 2 \* num;

}

}

3. **int** result3 = product(1);

System.out.println("The final answer is " + result3);

**public** **int** product(**int** num){

**if**(num > 20){

**return** -1;

}**else**{

**return** num \* product(-2 \* num);

}

}

**First Name\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Last Name\_\_\_\_\_\_\_\_\_\_\_\_\_**

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