**Last Name**

**First Name**

**Period**

**Java Tracing Recursion Worksheet**

|  |
| --- |
| public int m(int n)  {  if (n == 1){  return 1;  }  else{  return n + m(n - 1);  }  }  What value is returned by the method call m(5) ? |
| public int result(int n)  {  if (n == 1){  return 2;  }  else{  return 2 \* result(n - 1);  }  }  What value is returned by the method call result(5) ? |
| public int mystery(int n, int a, int d)  {  if (n == 1){  return a;  }  else{  return d + mystery(n - 1, a, d);  }  }  What value is returned by the method call mystery(3, 2, 6) ? |
| public int f(int k, int n)  {  if (n == k){  return k;  }  else{  if (n > k){  return f(k, n - k);  }  else{  return f(k - n, n);  }  }  }  What value is returned by the method call f(6, 8) ? |

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**Java Tracing Recursion Worksheet**

|  |
| --- |
| public int m(int n)  {  if (n == 1){  return 1;  }  else{  return n + m(n - 1);  }  }  What value is returned by the method call m(5) ? |
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| public int mystery(int n, int a, int d)  {  if (n == 1){  return a;  }  else{  return d + mystery(n - 1, a, d);  }  }  What value is returned by the method call mystery(3, 2, 6) ? |
| public int f(int k, int n)  {  if (n == k){  return k;  }  else{  if (n > k){  return f(k, n - k);  }  else{  return f(k - n, n);  }  }  }  What value is returned by the method call f(6, 8) ? |