

Using the method on the left, determine what is returned or printed by the method call on the right.

Show all work. Do not use a computer!!!

1)

```
public int mystery ( int a, int b ) {  
    if ( a == 1 )  
        return b;  
    else  
        return a * mystery ( a - 1, b );  
}
```

`mystery(4, 6)`

2)

```
public void trickery ( int n ) {  
    if ( n > 1 )  
        trickery ( n / 2 );  
    System.out.print ( n + " " );  
}
```

`trickery(35)`

3)

```
public int villainy ( int n ) {  
    if ( n == 0 )  
        return 0;  
    else  
        return ( n + villainy ( n / 3 ) * 4 );  
}
```

`villainy(38)`

4) public int interesting (int a, int b) { interesting(3, 4)
 if (b == 1)
 return a * a;
 else if (b == 0)
 return a;
 else
 return interesting (a , b - 2) + interesting (a, b - 1);
 }
}

5) public void curses (int n) { curses (72)
 System.out.println (n + " ");
 if (n <= 1)
 System.out.println ("repeat after me . . . ");
 else
 curses ((n - 1) / 3);
 System.out.print (n + " ");
 }
}