

1. Assume that the `int` variable `num` contains a positive value. Describe what is displayed by the following if statement with various values for `num`

```
if (num % 3 == 0 && num % 5 == 0)
{
    System.out.println("evenly divisible by ?");
}
else
{
    System.out.println("not evenly divisible by ?");
}
```

2. Assume that the `int` variable `num` contains a positive value. Write an `if` statement that displays "multiple of 5" if the variable `num` is a multiple of 5.

3. Assume that the `int` variable `num` contains a positive value. Write an `if` statement that displays "even" if `num` is even and "odd" if `num` is odd.

4. Assume that the `int` variable `num` contains a positive value. Write an `if` statement that displays "true" if the variable `num` is a multiple of 3 but is not a multiple of 24.