Factorial Trailing Zeroes [Microsoft Python Interview Question]

Before, you work on this question, make sure you've solved the easier warmup problem Factorial Formula, where you need to write a function to compute n factorial as follows:

$n! = n * (n-1) * (n-2) * ..... 2 * 1$.

Now that you know the factorial formula, let's write a function that returns the number of trailing zeroes in n!.

For example, for $5!$, we'd return 1, because $5! = 5 * 4 * 3 * 2 * 1 = 120$ and 120 has exactly 1 trailing zero.

For $10!$, which evaluates to 3628800 we'd return 2, because there are two trailing zeroes.