Text answer | Consider the following program for computing factorial numbers:

```
long fact(int n) {
// precondition:
sassert(n >= 0);
long f = 1;
for (long i = 1; i <= n; ++i) {
    f = i * f;
}
return f;
}</pre>
```

Provide your answers to the following questions in a plain text file:

- (a) How many arithmetic operations (+, -, \*, /) are required to compute fact (5)?
- (b) How many arithmetic operations (+, -, \*, /) are required to compute fact(n) for any positive integer n?
- a) Det kræver 10 operations at udregne fact(5)
- b) Et generelt udtryk fact(n) er 2n