Unit n °125

Prime + semiprime counting function

The prime counting function π(n) is defined as the number of primes less than or equal to n.
The simplest approximation for π(n) is given by

$$\pi(n) \approx \frac{n}{\ln n}.$$

Find a similarly simple approximation formula for
ρ(n)::= number of primes and semiprimes less than or equal to n.

References

[1] Weisstein, Eric W. "Prime Counting Function." From *MathWorld*--A Wolfram Web Resource. http://mathworld.wolfram.com/PrimeCountingFunction.html

[2] Weisstein, Eric W. "Semiprime." From *MathWorld*--A Wolfram Web Resource. http://mathworld.wolfram.com/Semiprime.html