3 A hollow cylinder, which is open at both ends, has a radius of (3.0 ± 0.1) cm and a length of (15.0 ± 0.1) cm.

What is the value, with its absolute uncertainty, of the surface area of the cylinder?

A (280 ± 10) cm^2

B (282.7 ± 0.2) cm^2

C (420 ± 30) cm^2

D (424.1 ± 0.3) cm^2