

- 8 A wire breaks when a tensile force T is applied. A second wire, made of the same material, has twice the diameter.

Which of the following is the force required to break the second wire?

☐ A $4T$

☐ B $2T$

☐ C $\frac{T}{2}$

☐ D $\frac{T}{4}$

(Total for Question 8 = 1 mark)