

- 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)