

**20** An unstretched spring has a length of 2.0 cm.

The spring is then stretched within its limit of proportionality by a tensile force of 1.5 N so that the elastic potential energy stored in the spring is 0.045 J.

What is the stretched length of the spring?

**A** 3.0 cm

**B** 5.0 cm

**C** 6.0 cm

**D** 8.0 cm