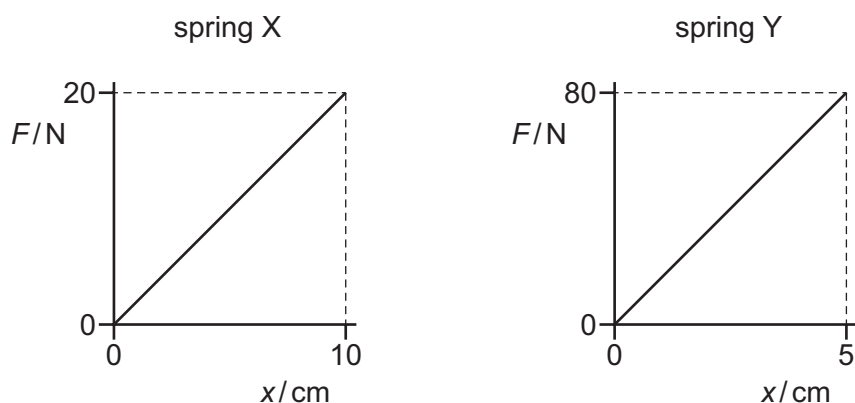
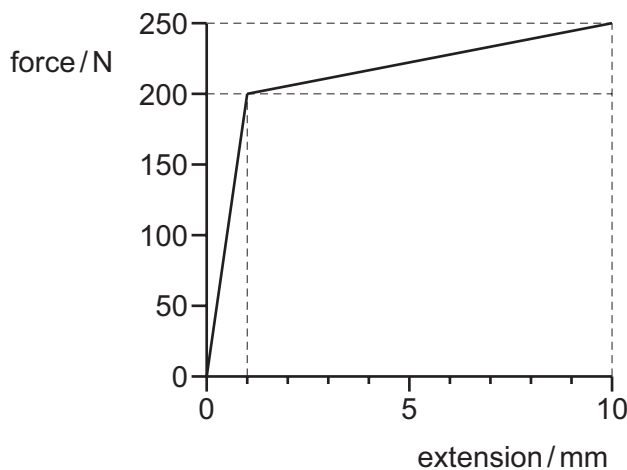


- 19 Two springs X and Y stretch elastically. The graphs show the variation with extension x of the force F applied to each spring.



Which statement is correct?

- A When each spring is given the same extension, the energy stored in Y is 4 times the energy stored in X.
 - B When each spring is given the same extension, the energy stored in Y is 8 times the energy stored in X.
 - C When the same force is applied to each spring, the energy stored in Y is 4 times the energy stored in X.
 - D When the same force is applied to each spring, the energy stored in Y is 8 times the energy stored in X.
- 20 The diagram shows the force-extension graph for a steel wire, up to its breaking point.



What is the best estimate of the work done to break the wire?

- A 2.1 J
- B 2.3 J
- C 2.4 J
- D 2.5 J