10 When compressed by a force of 50 N, a spring had a length of 12.0 cm.
When compressed by a force of 70 N, the same spring had a length of 7.1 cm.

Which of the following expressions gives the stiffness k of the spring in $N\,cm^{-1}$?

☒ **A** $\dfrac{70}{12.0} - \dfrac{50}{7.1}$

☒ **B** $\dfrac{(70-50)}{(12.0-7.1)}$

☒ **C** $\dfrac{50}{7.1} - \dfrac{70}{12.0}$

☒ **D** $\dfrac{(70-50)}{(12.0-4.9)}$

(Total for Question 10 = 1 mark)