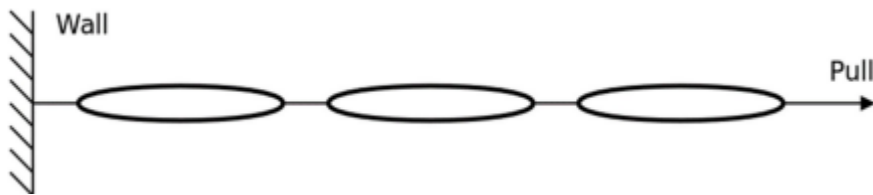


Year 11 Intermediate Physics Online Challenge

Sample questions:

Q2 Three identical elastic bands are tied together end to end. One end is fixed to a wall and the other end is pulled. Which of these statements is correct?



- A. Their lengths remain equal
- B. The band furthest from the wall is stretched the most
- C. The middle band extends twice as much as the other two
- D. The band nearest the wall extends twice as much as the other two
- E. The ratio of the extensions is 1 : 2 : 3

Q5 Two cubes of different materials are labelled A and B. Cube A has twice the mass of cube B. The length of one side of cube A is twice the length of one side of cube B. The density of cube A is:

- A. 4 times bigger than the density of cube B
- B. 2 times bigger than the density of cube B
- C. The same as the density of cube B
- D. 2 times smaller than the density of cube B
- E. 4 times smaller than the density of cube B

Answers: Q2 = A and Q5 = E