

**19** When a horizontal force  $F$  is applied to a frictionless trolley over a distance  $s$ , the kinetic energy of the trolley changes from 4.0 J to 8.0 J.

If a force of  $2F$  is applied to the trolley over a distance of  $2s$ , what will the original kinetic energy of 4.0 J become?

**A** 16 J

**B** 20 J

**C** 32 J

**D** 64 J

**20** When ice melts, it contracts