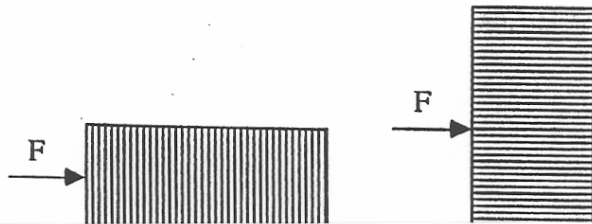


Q 9.

**QUESTION:** You are pushing this block of steel across the floor at a constant speed. You decide to turn the block on end, reducing the surface area in contact with the floor by half. In this new orientation, to push this same block across the same floor with the same speed, the force that you must apply is:

1. about four times as big as before
2. about twice as big as before
3. about the same as before
4. about half as big as before
5. about one fourth as big as before



Q 10.

An object is held in place by friction on an inclined surface. The angle of inclination is increased until the object starts moving. If the surface is kept at this angle, the object

1. slows down.
2. moves at uniform speed.
3. speeds up.
4. none of the above

## Answers

Q9. 3

Q10. 3