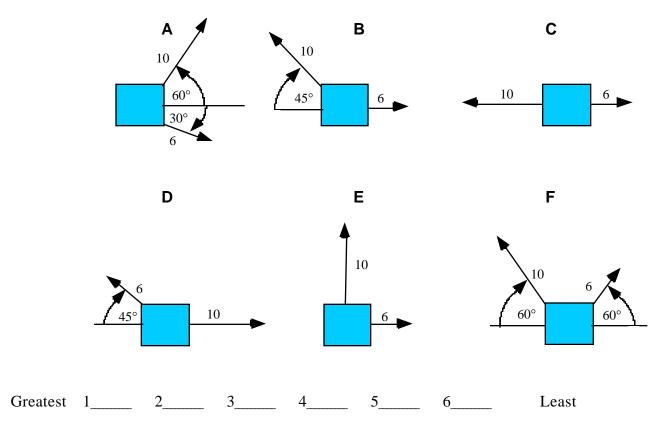
Two-Dimensional Forces on a Treasure Chest—Acceleration 18

The six figures below represent treasure chests with two forces acting on them. The lengths of the force vectors represent the magnitude of the force. Rank these situations from greatest to least with regard to the resulting magnitude of acceleration of the treasure chest. If you believe two situations have the same magnitude of acceleration, place both their letters at the same rank.



Or, all of these treasure chests have the same magnitude of acceleration. ______ Please carefully explain your reasoning.

How sure were you of your ranking?

 Basically Guessed
 Sure
 Very Sure

 1
 2
 3
 4
 5
 6
 7
 8
 9
 10

¹⁸ K.W. Nicholson, D. Maloney, T. O'Kuma