

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
DEPARTMENT OF PHYSICS

PYP – 001-11

I.D. #

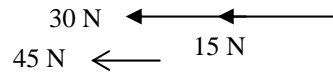
Name: Key

QUIZ No. 1

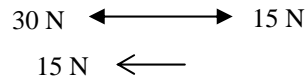
- 1- Consider a pair of forces, one with a magnitude of 30 N and the other with magnitude of 15 N. What the maximum net force is possible for these two forces, and at which condition? What the minimum net forces possible, and at which condition?

Answer:

The maximum magnitude of them is: $30+15 = 45$ N (When they are in the same direction)



The minimum magnitude of them is: $30-15 = 15$ N (When they are in opposite direction)



- 2- The mass and the weight of a man on the Earth are 75 Kg, 735 N, respectively. The mass and the weight of the same man on the Moon respectively will be:
- a. Greater than 75 Kg, less than 735 N.
 - b. Exactly 75 Kg, greater than 735 N.
 - c. Half of 75 Kg, less than 735 N.
 - d.** Exactly 75 Kg, less than 735 N.
 - e. All answers above are wrong.