Choose:

- - a) 2400 N in the same direction of motion
 - b) 2400 N in the opposite direction of motion
 - c) 1200 N in the same direction of motion
 - d) 1200 N in the opposite direction of motion
- 2) Calculate the magnitude of the resultant force that acts on the mass and also calculate its acceleration in next figure:



3)The egg usually breaks when it falls on the ground, while it doesn't break when it falls on a pillow from the same height because in case of breaking

- a) The change in momentum is larger
- b) The change in momentum is smaller
- c) The time impact is larger
- d) The time impact is smaller

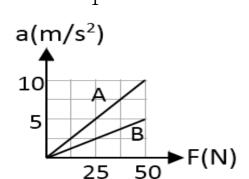
4)Two bodies of the same mass, if two different forces acted on them where the ratio between them is $\frac{3}{1}$, then the ration between the acceleration of the two bodies respectively is

a)
$$\frac{1}{3}$$

b)
$$\frac{3}{1}$$

c)
$$\frac{1}{9}$$

5)The opposite graph shows the relation between acceleration of two cars A , B and the forces that causes them, calculate the ratio between the mass of A and the mass of B.



Sec.1	Chapter (3)	Quiz no. (2)
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6) The following figure shows four masses that are connected with a thread of negligible mass. The masses are pulled over a frictionless surface by a horizontal force (F). Calculate the tension force between m_3 , m_4

