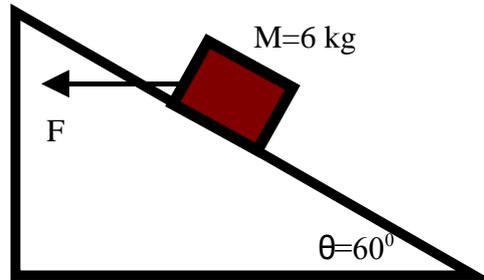


11- A 5 kg body rotates in a circle of 80 cm in diameter with a speed of 10 m/s, the force acting on the body is:

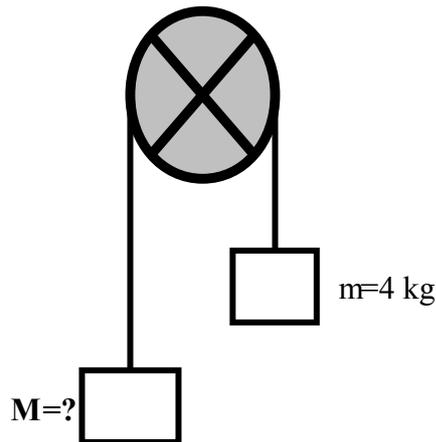
- (a) 625 N (b) 125 N (c) 1250 N (d) 62.5 N (f) 12.5 N

12- As shown in the figure, the body moves with constant speed. The magnitude of the horizontal force F is:



- (a) 117.6 N (b) 29.4 N (c) 50.9 N (d) 101.9 N (f) 58.8 N

13- In the figure below, the acceleration of the system is 1.8 m/s^2 . The value of the mass M is:



- (a) 5.8 kg (b) 6.5 kg (c) 9.8 kg (d) 10 kg (f) 4.5 kg

14- The direction of the acceleration of a rotating object is always:

- (a) outwards the center of the circle (b) tangent to the circle
(c) towards the center of the circle (d) normal to the force

15- The acceleration of a body under the influence of different forces is always in the direction of:

- (a) the larger force (b) the smaller force
(c) resultant force (d) the positive force