

Choose the correct answer:

1. Two bodies have the same momentum, one of them has a mass of 5 kg and its velocity is 20 m/s, hence if the second one has a mass of 15 kg, its velocity equals.....

- a) 0.15 m/s b) 5.55 m/s c) 6.67 m/s d) 20 m/s

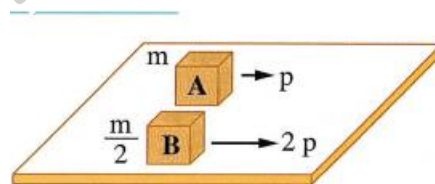
2. When a body projected upward its

- a) momentum decreases b) mass increases
c) acceleration decreases d) velocity increases

3. A bowling ball of mass 4.6 kg is moving at velocity v along a bowling alley, so at what velocity a gulf ball of mass 46 g has to move so that it has the same magnitude of momentum as that of the bowling ball?

- a) 0.01 v b) 5 v c) 10 v d) 100 v

4. In the opposite figure, if body A has mass m , velocity v and momentum p while body B has mass $\frac{m}{2}$ and momentum $2 p$, the velocity of body B is.....



- a) $\frac{v}{2}$ b) v c) 2 v d) 4 v

5. If the velocity of an object is doubled and its mass decreased to half, its momentum.....

- a) doesn't change b) decreases to half
c) increase to the double d) increases four times

Name: -

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