PHYICS Area | Quiz(2) | Sec (1)

Mrs.Marwa Ahmed

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

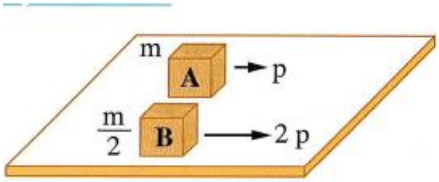
2. When a body projected upward its .....

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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