

7. Jon is playing with a tennis ball. It has a mass of 50 g.

- (a) What is the weight of the tennis ball if the Earth's gravity exerts a force of 10 N/kg?

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(3)

- (b) When Jon drops the ball, it falls to the ground. Explain whether or not it falls at a steady speed.

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(2)

- (c) The ball bounces on a concrete path. Explain why it does not bounce back to the same height from which Jon dropped it.

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(2)

- (d) Jon notices a leaf falling to the ground at a steady speed. Does this mean that the force of air resistance is bigger, smaller or the same as the force of gravity acting on the leaf?

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(1)