

Balancing Act Quiz

Go to [the Balancing Act Simulation](#). There are three parts to the simulation: an Intro, a Balance Lab and a Game. Use the Intro to practice placing different weights on the balance beam at different locations on the beam. Then, play the game as many times as you have time.

Then answer the following questions. Use the Balance Lab to find your answers.

1. If you place a 5 kg weight at the 1.5 meter mark on the left side of the beam, where will you place a 10 kg weight to balance the beam?
 - a. .75 meter mark on the right side,
 - b. .5 meter mark on the left side,
 - c. .75 meter mark on the left side,
 - d. 1.5 meter mark on the right side

2. If you place a 20 kg weight at the 1 meter mark on the right side where will you need to place a 10 kg weight to balance the beam?
 - a. .75 meter mark on the left side,
 - b. 1.5 meter mark on the right side,
 - c. 2 meter mark on the right side,
 - d. 2 meter mark on the left side

3. If you place a 15 kg weight at the 1 meter mark on the right side, where will you need to place a 10 kg weight to balance the beam?
 - a. 1 meter mark on the left side,
 - b. 2 meter mark on the left side,
 - c. 1.5 meter mark on the left side,
 - d. 1.25 meter mark on the left side

4. If you place a 20 kg weight at the 1.25 meter mark on the right side and a 20 kg weight at the 1 meter mark on the left side, how much weight do you need to put at the 0.5 meter mark on the left side to balance the beam?
 - a. 10 kg,
 - b. 5 kg,
 - c. 15 kg,
 - d. 20 kg