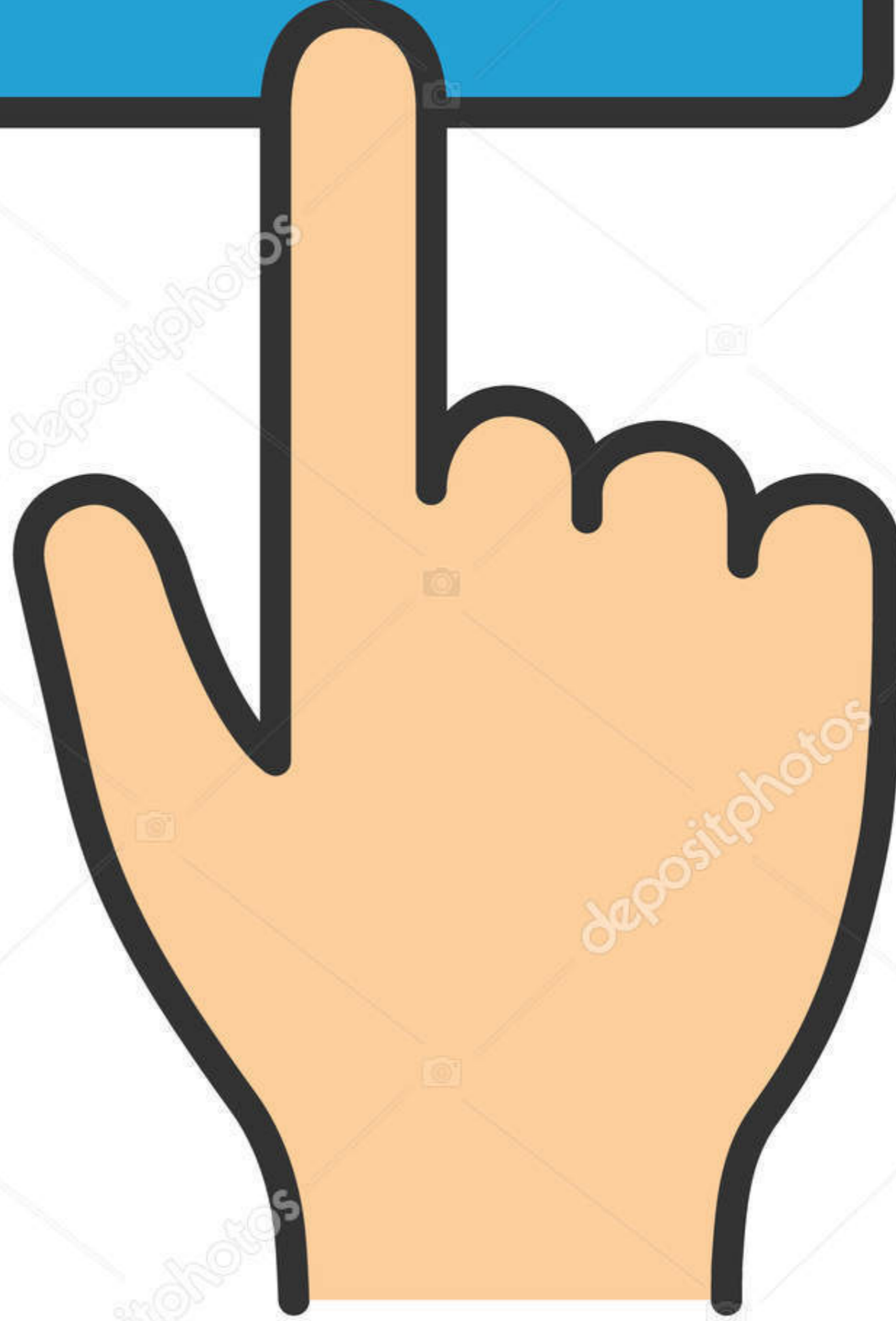


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Energy Skate Park Simulation Answer Key

Conservation of Energy Practice Name \_\_\_\_\_

Fill out the data chart below for each of the cases involving conservation of energy. You need to calculate the total mechanical energy, gravitational potential energy, elastic potential energy, the kinetic energy and the energy lost to friction. Show all equations and work inside each of the boxes.

Case 2:

A 50 kg diver starts atop a diving board platform which is 90 meters above the surface of the water below. At point A, she jumps with a velocity of 2.3 m/s. At point B she reaches her maximum height in the air. At point C, she reaches the water.

Point	Gravitational Potential Energy	Kinetic Energy	Total Mechanical Energy	Velocity
A	$mgh$ $(50)(9.81)(90)$ 44,145 J	$\frac{1}{2}mv^2$ 132 J	44,277	2.3 $\frac{m}{s}$
B	44,277	0	44,277	0
C	0	44,277	44,277	42.1 $\frac{m}{s}$

Diagram notes: A vertical axis shows point B at the top, point A in the middle, and point C at the bottom (water surface). A double-headed arrow between B and A is labeled '90m'. A red arrow points from A to C, labeled  $v = \sqrt{\frac{2E_{total}}{m}}$ .

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