Enter your answer, with one decimal place, in the space provided.

Salha runs off a diving board in the horizontal direction that is 3.2 meters from the surface of the water and lands in the water 1.6 meters from the edge of the board. She was traveling

1. 2.0 ✓ m/s when she left the board.

1. 2.0 https://t.me/Grade10GenAdv ✓

Select the correct answer.

The gravity on the space station is 89% of the gravity on Earth. If an astronaut throws a foam ball with a horizontal velocity of 1.2 m/s, what is the vertical distance the ball will travel in 0.5 seconds?



ATTEMPT 1

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- ○ 1.23 m
- ◉ 1.1 m ✓
- ○ 2.18 m
- ○ 0.55 m

Select the correct answer.

Which of the following is the correct gravitational acceleration acting on an ideal projectile?

ATTEMPT 1

- $a_y = 0\,m/s^2$
- $a_y = -9.81\,m/s^2$ ✓
- $a_y = -9.81\ m/s$
- $a_y = 9.81\,m/s^2$

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Select the correct answer from the drop-down menu.

The horizontal velocity of an ideal projectile is 1. constant ✓ .

1. constant

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✓

Select the correct value from the drop-down menu.

Eid throws a ball horizontally as a target falls. The ball hits the target in 0.71 seconds. The vertical distance the target falls before being hit by the ball is 1. 2.5 ✓ meters.

1. 2.5

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Select the correct answers from the drop-down menus.

A hockey player shoots a puck from the ground giving it an initial speed of 15 m/s at an angle of 42 degrees above the horizontal. At $t = 1.5$ seconds, the vertical position of the puck is 1. 4.0 ✓ m above the ground and its vertical velocity is 2. -4.7 ✓ m/s. Assume the launching point is the origin and the positive vertical direction is upwards.

1. 4.0 ✓

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2. -4.7 ✓