Select the correct answer.

Which statement describes an object with ideal projectile motion?

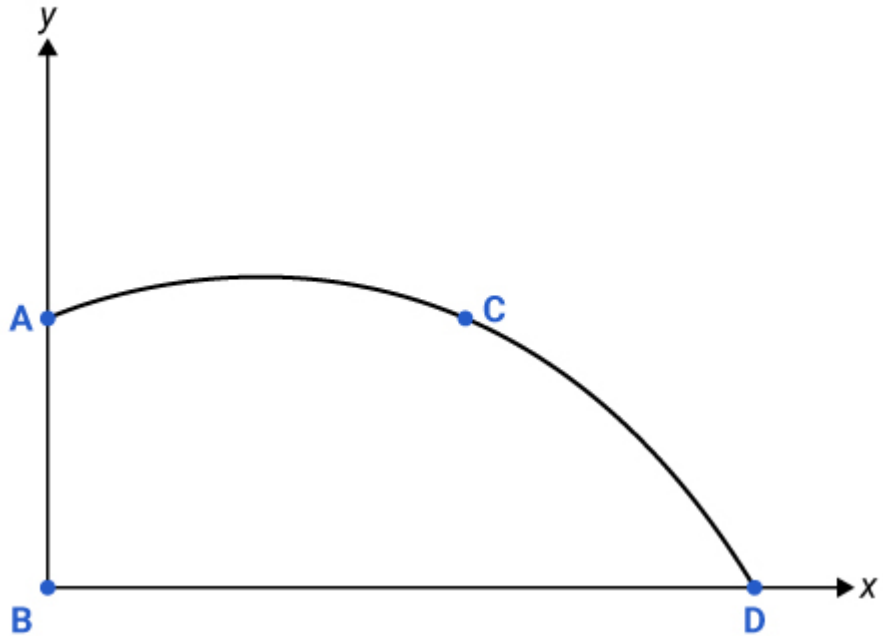
ATTEMPT 1

- Its trajectory is affected by friction.
- Its trajectory is only affected by gravitational acceleration. ✓
- It has no launch angle.
- It has horizonal acceleration.

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Select the correct answer.

For an ideal projectile, the range is measured across which of these points?



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ATTEMPT 1

- ○ C and D
- ◉ A and C ✓
- ○ A and B
- ○ A and D

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

Salima is calculating the range R of a projectile object that has its origin on the ground $(y = 0)$. The object's initial speed $= 9.4$ m / s and launch angle $\theta_0 = 72°$. Complete this sentence: Salima finds that the object's range of flight R is 1. 5.3 ✓ m.

1. 5.3 https://t.me/Grade10GenAdv ✓

Select the correct terms from the drop-down menus to complete the sentences.

A projectile traveling with a maximum range is affected by gravity and has an initial velocity at an angle θ_0 where [1. $\cos(2\theta_0) = 0$] . This applies when [2. $\theta_0 = 45°$] .

1. $\cos(2\theta_0) = 0$ ✓

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2. $\theta_0 = 45°$ ✓

Enter your answer with 2 significant figures in the space provided.

An infant throws a toy out of her stroller. The toy has a launch angle (θ_0) of $40°$ from horizontal, and an initial speed (v_0) of 2.5 m / s. You calculate that the range of the toy's motion is

1. 0.63 ✓ m.

1. 0.63
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✓

Select all the correct answers.

How can the motion of a projectile be described?

- [x] A projectile takes a curved path that is called its trajectory. ✓
- [ ] The projectile object has only horizontal velocity.

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- [ ] The projectile has a trajectory that is independent of gravitational acceleration.
- [ ] The projectile is always losing speed as it moves.
- [ ] The projectile travels in a continuous straight line from its origin.
- [x] The projectile typically has a range, maximum height, and time of flight. ✓