

PROJECTILE MOTION

PRACTICE QUESTIONS (WITH ANSWERS)

* challenge questions

Q1.

A golfer practising on a range with an elevated tee 4.9 m above the fairway is able to strike a ball so that it leaves the club with a horizontal velocity of 20 m s^{-1} . (Assume the acceleration due to gravity is 9.80 m s^{-2} , and the effects of air resistance may be ignored unless otherwise stated.)



- How long after the ball leaves the club will it land on the fairway?
- What horizontal distance will the ball travel before striking the fairway?
- What is the acceleration of the ball 0.5 s after being hit?
- Calculate the speed of the ball 0.80 s after it leaves the club.
- With what speed will the ball strike the ground?

A1.

- $x = vt + 0.5at^2$
then $4.9 \text{ m} = 0 + 0.5(9.8 \text{ m s}^{-2})t^2$
and $t = 1.0 \text{ s}$
- $x = (\text{average speed})(\text{time}) = (20 \text{ m s}^{-1})(1.0 \text{ s}) = 20 \text{ m}$
- The acceleration of the ball is constant at any time during its flight, and is equal to the acceleration due to gravity
 $= 9.8 \text{ m s}^{-2}$ down
- After 0.80 s, the ball has two components of velocity:
 $v_x = 20 \text{ m s}^{-1}$
and $v_y = 0 + (9.8 \text{ m s}^{-2})(0.80 \text{ s}) = 7.84 \text{ m s}^{-1}$
The speed of the ball at 0.80 s is given by:
 $[(20 \text{ m s}^{-1})^2 + (7.84 \text{ m s}^{-1})^2]^{1/2} = 21.5 \text{ m s}^{-1}$

- The ball will strike the ground 1.0 s after it is struck.

Then $v_x = 20 \text{ m s}^{-1}$

and $v_y = 0 + (9.8 \text{ m s}^{-2})(1.0 \text{ s}) = 9.8 \text{ m s}^{-1}$

The speed of the ball at 1.0 s is given by:

$$[(20 \text{ m s}^{-1})^2 + (9.8 \text{ m s}^{-1})^2]^{1/2} = 22.3 \text{ m s}^{-1}$$

Q2.

A bowling ball of mass 7.5 kg travelling at 10 m s^{-1} rolls off a horizontal table 1.0 m high. (Assume the acceleration due to gravity is 9.80 m s^{-2} , and the effects of air resistance may be ignored unless otherwise stated.)

- Calculate the ball's horizontal velocity just as it strikes the floor.
- What is the vertical velocity of the ball as it strikes the floor?
- Calculate the velocity of the ball as it reaches the floor.
- What time interval has elapsed between the ball leaving the table and striking the floor?
- Calculate the horizontal distance travelled by the ball as it falls.

A2.

- The horizontal velocity of the ball remains constant and $v_x = 10 \text{ m s}^{-1}$.

$$v^2 = v_x^2 + 2ax$$

$$\text{and } v_y^2 = 0^2 + 2(9.8 \text{ m s}^{-2})(1.0 \text{ m})$$

$$\text{and } v_y = 4.4 \text{ m s}^{-1} \text{ down}$$

$$v = [(10 \text{ m s}^{-1})^2 + (4.4 \text{ m s}^{-1})^2]^{1/2} = 10.9 \text{ m s}^{-1} \text{ at } 24^\circ \text{ to the horizontal}$$

where the angle is determined from

$$\tan \theta = 4.4 \text{ m s}^{-1}/10 \text{ m s}^{-1} = 0.443 \text{ and } \theta = 24^\circ$$

$$x = vt + 0.5at^2$$

$$\text{and } 1.0 \text{ m} = 0 + 0.5(9.8 \text{ m s}^{-2})t^2$$

$$\text{so } t = 0.45 \text{ s}$$

$$\text{Horizontal distance} = (\text{horizontal speed})(\text{time}) = (10 \text{ m s}^{-1})(0.45 \text{ s}) = 4.5 \text{ m}$$

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John Gibson Winans

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