NOVA SCOTIA PHYSICS 12 · UNIT A

Two-Dimensional Motion — Practice Test

Nova Scotia Physics 12 • 10 questions

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **A projectile is launched at 45 degrees with speed 50 metres per second . Using g = 10 metres per second squared , the horizontal range , in metres , is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A projectile is launched vertically with vertical speed 25 metres per second . Using g = 10 , the time to return to launch height , in seconds , is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A projectile is launched vertically with vertical speed 10 metres per second . Using g = 10 , the time to return to launch height , in seconds , is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A projectile is launched vertically with vertical speed 60 metres per second . Using g = 10 , the maximum height , in metres , is**

ANSWER

Understand It with Pulse | Flag a mistake

5 **A projectile is launched vertically with vertical speed 50 metres per second . Using g = 10 , the maximum height , in metres , is**

ANSWER

Understand It with Pulse | Flag a mistake

6 **A boat moves at 5 metres per second across a river while the current moves at 12 metres per second. The resultant speed, in metres per second, is**

ANSWER

Understand It with Pulse | Flag a mistake

7 **A boat moves at 8 metres per second across a river while the current moves at 15 metres per second. The resultant speed, in metres per second, is**

ANSWER

Understand It with Pulse | Flag a mistake

8 **A vector quantity has both magnitude and**

A direction

B mass

C speed only

D time

Understand It with Pulse | Flag a mistake

9 **Projectile motion is the result of constant horizontal velocity and**

A horizontal acceleration

B vertical acceleration due to gravity

C zero gravity

D constant vertical velocity

Understand It with Pulse | Flag a mistake

10 **The time of flight of a projectile depends on its**

A horizontal speed only

B mass

C vertical motion only

D range only

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	250	**5.**	125	**9.**	B
2.	5	**6.**	13	**10.**	C
3.	2	**7.**	17		
4.	180	**8.**	A		

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