NOVA SCOTIA PHYSICS 11 · UNIT B

Forces and Force Vectors, Newtons Laws, Friction and Inclined Planes — Practice Test

Nova Scotia Physics 11 • 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 net force acts on a mass of 20 kilograms giving acceleration 4 metres per second squared. The net force, in newtons, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

2 **A net force of 100 newtons acts on a mass of 20 kilograms. Its acceleration, in metres per second squared, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **Tension in a rope pulls**

A along the rope

B across the rope

C downward always

D upward always

Understand It with Pulse | Flag a mistake

4 **The normal force acts**

A parallel to a surface

B perpendicular to a surface

C downward always

D upward always

Understand It with Pulse | Flag a mistake

5 **The unit of force is the**

A newton

B joule

C watt

D pascal

Understand It with Pulse | Flag a mistake

6 **Weight is the force of gravity on a mass and depends on**

A gravitational field strength

B volume only

C density only

D temperature

Understand It with Pulse | Flag a mistake

7 **When two forces of 10 newtons act in opposite directions, the net force, in newtons, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **When two forces of 10 newtons act in the same direction, the net force, in newtons, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **A net force acts on a mass of 10 kilograms giving acceleration 7 metres per second squared. The net force, in newtons, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A net force acts on a mass of 4 kilograms giving acceleration 6 metres per second squared. The net force, in newtons, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	80	**5.**	A	**9.**	70
2.	5	**6.**	A	**10.**	24
3.	A	**7.**	0		
4.	B	**8.**	20		

© 2026 Brett Robbins. All Rights Reserved.