NEWFOUNDLAND AND LABRADOR PHYSICS 2204 · UNIT B

Dynamics — Practice Test

Newfoundland and Labrador Physics 2204 • 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 **Think about the property. An astronaut mass on the Moon compared with on Earth is**

- A smaller
- B the same
- C larger
- D zero

Understand It with Pulse | Flag a mistake

2 **A 5 kg block accelerates at 4 m per second squared against friction of 5 N. The applied force, in newtons, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A 70 kg person stands in an elevator accelerating upward at 1 m per second squared . The normal force , in newtons , using g = 9.8 , is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Consider the property in general. Inertia is a measure of an object resistance to a change in motion, and it depends on**

A mass

B weight only

C volume only

D temperature

Understand It with Pulse | Flag a mistake

5 **A 10 kg mass accelerates at 3 m per second squared. The net force, in newtons, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A net force of 24 N acts on a 4 kg mass. Its acceleration, in metres per second squared, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A 2 kg mass has weight , using g = 9.8 m per second squared , in newtons , of**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **Apply the statement. Newton first law states that an object at rest stays at rest unless acted on by**

A an unbalanced force

B gravity only

C friction only

D a balanced force

Understand It with Pulse | Flag a mistake

9 **Consider the statement in general. Newton third law states that forces always occur in**

A the same direction

B equal and opposite pairs

C one direction only

D pairs of different sizes

Understand It with Pulse | Flag a mistake

10 **A block has normal force 150 N and coefficient of friction 0.1. The maximum static friction, in newtons, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	B	**5.**	30	**9.**	B
2.	25	**6.**	6	**10.**	15
3.	756	**7.**	19.6		
4.	A	**8.**	A		

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