NORTHWEST TERRITORIES PHYSICS 12 (MPH--12) · UNIT B · 5 QUESTIONS

Dynamics and Circular Motion — Practice Test

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 **Red octagonal STOP sign on a metal pole against a pale blue sky, sign large in frame, no people. The sign face carries the word STOP (the real-world object); the image shows the eight-sided shape, not the answer word (octagon). A net force of 15 N acts on a 6 kg object. Its acceleration, in metres per second squared, is**



ANSWER

Understand It with Pulse | Flag a mistake

2 **A 2.5 kg object sits on Earth. Using g = 9.8 m per s squared, its weight, in newtons, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **An object moves in a circle of radius 4 m at a speed of 8 m per s. Its centripetal acceleration, in metres per second squared, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A 3 kg object moves in a circle of radius 2 m at a speed of 4 m per s. The centripetal force, in newtons, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A wheel makes 40 revolutions in 10 s. Its period, in seconds, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 2.5
2. 24.5
3. 16
4. 24
5. 0.25

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