MANITOBA SCIENCE 20F · UNIT C · 5 QUESTIONS

In 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). An object travels 160 metres in 5 seconds. Its speed, in metres per second, is



ANSWER

Understand It with Pulse

Flag a mistake

2 **An object starts at 4 metres per second and accelerates at 4 metres per second squared for 4 seconds. Its final speed, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A mass of 10 kilograms accelerates at 5 metres per second squared. The net force, in newtons, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A mass of 6 kilograms moves at 4 metres per second. Its kinetic energy, in joules, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **Use g = 10 metres per second squared . A mass of 7 kilograms at height 4 metres has gravitational potential energy , in joules , of**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 32
2. 20
3. 50
4. 48
5. 280

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