ENGLAND GCSE PHYSICS EDEXCEL HIGHER · UNIT 2 · 10 QUESTIONS

Motion and Forces — 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 **A bicycle freewheels downhill. What happens to its speed?**

- A it decreases
- B it becomes zero
- C it increases
- D it stays the same

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2 **A rocket in space has no air around it. What happens to air resistance?**

- A it stays the same
- B there is none
- C it increases
- D it becomes gravity

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3 **A basketball is thrown up. What happens to its speed as it rises?**

- A it decreases
- B it increases
- C it stays the same
- D it becomes zero

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4 **What is a scalar quantity?**

- A a quantity with direction only
- B a quantity with no size
- C a quantity with size and direction
- D a quantity with size only

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5 **A 4 kg trolley moves at 4 m/s. What is its momentum?**

- A 8 kg m/s
- B 32 kg m/s
- C 21 kg m/s
- D 16 kg m/s

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6 **An object travels 400 m in 40 seconds. What is its speed?**

- A 16000 m/s
- B 5 m/s
- C 10 m/s
- D 20 m/s

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7 **What is the weight of a 5 kg object on Earth? Use g = 10 N/kg.**

- **A** 25 N
- **B** 50 N
- **C** 100 N
- **D** 5 N

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8 **An object speeds up from 10 m/s to 30 m/s in 5 seconds. What is its acceleration?**

- **A** 2 m/s²
- **B** 8 m/s²
- **C** 20 m/s²
- **D** 4 m/s²

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9 **A red race car has a large rear wing. What does the wing do?**

- A reduces grip
- B reduces drag to zero
- C increases speed
- D increases grip

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10 **What force is needed to accelerate a 2 kg object at 2 m/s squared?**

- A 4 N
- B 8 N
- C 9 N
- D 2 N

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ANSWER KEY

1. C
2. B
3. A
4. D
5. D
6. C
7. B
8. D
9. D
10. A

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