ENGLAND GCSE PHYSICS EDEXCEL HIGHER · UNIT 9 · 10 QUESTIONS

Forces and Their Effects — 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 cardboard box is full of books. What is its mass like?**

- A the same as when empty
- B smaller than when empty
- C larger than when empty
- D zero

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2 **A Ferris wheel turns. What force keeps a person moving in a circle?**

- A friction only, gripping the seat
- B centripetal force
- C air resistance pushing them back
- D gravity only, pulling them down

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3 **A force of 200 N acts on an area of 10 square metres. What is the pressure?**

- A 20 Pa
- B 40 Pa
- C 2000 Pa
- D 10 Pa

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4 **A ladder is used to reach a roof. What is the ladder an example of?**

- A a lever only
- B a simple machine
- C a power source
- D a complex machine

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5 **Hardcover books have mass. What is mass measured in?**

- A kilograms
- B watts
- C joules
- D newtons, the unit of force

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6 **A force of 20 N acts 5 m from a pivot. What is the moment of the force?**

- A 100 Nm
- B 200 Nm
- C 110 Nm
- D 50 Nm

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7 **Where is the pivot in a pair of scissors?**

- **A** at the tip of the blades
- **B** at the end of the handles
- **C** where the two blades cross
- **D** there is no pivot

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8 **A force of 500 N acts on an area of 5 square metres. What is the pressure?**

- **A** 200 Pa
- **B** 105 Pa
- **C** 50 Pa
- **D** 100 Pa

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9 **A force of 50 N acts 4 m from a pivot. Calculate the moment in Nm.**

- A 200
- B 100
- C 400
- D 215

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10 **Why does pressure in a liquid increase with depth?**

- A the container gets smaller
- B the liquid gets hotter as it gets deeper
- C more liquid above pushes down
- D the liquid gets thicker

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ANSWER KEY

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

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