ENGLAND GCSE COMBINED SCIENCE EDEXCEL FOUNDATION · UNIT 24 · 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 so it can be fixed.

1 **A car goes around a roundabout at a steady speed. Is the car accelerating?**

- A no, it is not moving at all
- B yes, its direction is changing
- C yes, its speed is increasing quickly
- D no, its speed is steady and unchanging

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2 **A Ferris wheel is at the top. What is the person's height like?**

- A at its smallest
- B at its greatest
- C unchanged
- D at zero

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3 **A force of 400 N acts on an area of 4 square metres. What is the pressure?**

- A 50 Pa
- B 100 Pa
- C 1600 Pa
- D 200 Pa

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4 **A force of 400 N acts on an area of 20 square metres. Calculate the pressure in pascals.**

- A 40
- B 35
- C 20
- D 10

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5 **A force of 50 N acts 2 m from a pivot. What is the moment of the force?**

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

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6 **A force of 200 N acts on an area of 2 square metres. What is the pressure?**

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

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7 **Hardcover books are dropped. What happens to their speed as they fall?**

A it stays the same

B it becomes zero

C it decreases

D it increases

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8 **A force of 100 N acts on an area of 2 square metres. What is the pressure?**

A 200 Pa

B 50 Pa

C 100 Pa

D 25 Pa

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9 **A cardboard box sits on a floor. What is the force between the box and the floor?**

A the friction between the surfaces

B the upthrust from the floor

C the weight of the box

D the air pressure all around it

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10 **A force of 400 N acts on an area of 10 square metres. Calculate the pressure in pascals.**

A 40

B 80

C 55

D 20

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ANSWER KEY

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

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