ENGLAND GCSE PHYSICS EDEXCEL FOUNDATION · UNIT 9 · 25 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 wristwatch measures time. What is the unit of time?**

- A the day
- B the minute
- C the second
- D the hour

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2 **A car leaves a roundabout. What happens to its direction?**

- A it stays the same
- B it reverses
- C it disappears
- D it changes

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

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

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

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

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

- A the air pressure all around it
- B the weight of the box
- C the friction between the surfaces
- D the upthrust from the floor

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6 **Hardcover books are stacked on a table. What force pulls them down?**

- A air resistance
- B gravity
- C tension
- D friction

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7 **A door is hard to push open near its hinges. Why?**

A the moment is small

B the door is heavier near the hinges

C the handle is too far away

D the hinges push back harder

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8 **A force of 100 N acts on an area of 10 square metres. Calculate the pressure in pascals.**

A 20

B 10

C 25

D 5

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9 **A force of 500 N acts on an area of 4 square metres. What is the pressure?**

- A 250 Pa
- B 125 Pa
- C 130 Pa
- D 62 Pa

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

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

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11 **A force of 100 N acts on an area of 4 square metres. What is the pressure?**

- A 12.5 Pa
- B 400 Pa
- C 50 Pa
- D 25 Pa

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12 **A force of 20 N acts 3 m from a pivot. Calculate the moment in Nm.**

- A 60
- B 75
- C 120
- D 30

Understand It with Pulse | Flag a mistake

13 **A force of 50 N acts 4 m from a pivot. What is the moment of the force?**

- A 200 Nm
- B 210 Nm
- C 100 Nm
- D 400 Nm

Understand It with Pulse | Flag a mistake

14 **A see-saw balances when the moments on each side are what?**

- A bigger on the heavy side
- B equal
- C doubled on the left side
- D zero on both sides

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

- A 20
- B 80
- C 40
- D 55

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

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

Understand It with Pulse | Flag a mistake

17 **A force of 100 N acts on an area of 10 square metres. What is the pressure?**

- A 5 Pa
- B 15 Pa
- C 20 Pa
- D 10 Pa

Understand It with Pulse | Flag a mistake

18 **A force of 10 N acts 2 m from a pivot. Calculate the moment in Nm.**

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

Understand It with Pulse | Flag a mistake

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

- A 250 Nm
- B 125 Nm
- C 500 Nm
- D 260 Nm

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

- A 115
- B 100
- C 200
- D 50

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21 **A force of 25 N acts 2 m from a pivot. Calculate the moment in Nm.**

- A 25
- B 50
- C 100
- D 65

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22 **A force of 25 N acts 2 m from a pivot. What is the moment of the force?**

- A 50 Nm
- B 100 Nm
- C 25 Nm
- D 60 Nm

Understand It with Pulse | Flag a mistake

23 **A force of 1000 N acts on an area of 2 square metres. Calculate the pressure in pascals.**

- A 500
- B 1000
- C 250
- D 515

Understand It with Pulse | Flag a mistake

24 **A force of 200 N acts on an area of 5 square metres. What is the pressure?**

- A 80 Pa
- B 45 Pa
- C 20 Pa
- D 40 Pa

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25 **A force of 400 N acts on an area of 2 square metres. What is the pressure?**

A 100 Pa

B 400 Pa

C 200 Pa

D 800 Pa

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	C	**10.**	A	**19.**	A
2.	D	**11.**	D	**20.**	B
3.	D	**12.**	A	**21.**	B
4.	C	**13.**	A	**22.**	A
5.	B	**14.**	B	**23.**	A
6.	B	**15.**	C	**24.**	D
7.	A	**16.**	B	**25.**	C
8.	B	**17.**	D		
9.	B	**18.**	C		

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