QUEBEC PHYSICS, SECONDARY V · UNIT A · 25 QUESTIONS

Kinematics — 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 car speeds up from 0 metres per second to 20 metres per second in 4 seconds. Its acceleration, in metres per second squared, is**



ANSWER

Understand It with Pulse | Flag a mistake

2 **An object starts at 3 metres per second and accelerates at 2 metres per second squared for 5 seconds. Its final speed, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **An object starts at 0 metres per second and accelerates at 2 metres per second squared for 5 seconds. The distance travelled, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **An object travels 100 metres in 5 seconds at constant speed. Its speed, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A car starts from rest and accelerates at 2 metres per second squared over 16 metres. Its final speed, in metres per second, is**



ANSWER

Understand It with Pulse | Flag a mistake

6 **A negative acceleration means the object is slowing down when it moves in the positive**

- A direction
- B colour
- C mass
- D temperature

Understand It with Pulse | Flag a mistake

7 **A position time graph that curves upward shows**

- A constant velocity
- B zero velocity
- C increasing velocity
- D negative mass

Understand It with Pulse | Flag a mistake

8 **A position time graph that is a straight line shows**

A acceleration

B constant velocity

C force

D gravity

Understand It with Pulse | Flag a mistake

9 **An object moving at constant velocity has acceleration**

A maximum

B negative always

C zero

D positive always

Understand It with Pulse | Flag a mistake

10 **An apple thrown upward slows down because gravity acts**



A upward

B downward

C sideways

D randomly

Understand It with Pulse | Flag a mistake

11 **At the highest point of its flight a thrown object has instantaneous velocity**

A maximum

B negative

C zero

D constant

Understand It with Pulse | Flag a mistake

12 **Average velocity equals total displacement divided by total**

A time

B mass

C force

D energy

Understand It with Pulse | Flag a mistake

13 **Displacement differs from distance because displacement has**

A mass

B direction

C colour

D temperature

Understand It with Pulse | Flag a mistake

14 **Free fall near Earth means the only force acting is**

A friction

B air pressure

C magnetism

D gravity

Understand It with Pulse | Flag a mistake

15 **In free fall, ignoring air resistance, a feather and a bowling ball accelerate at the same**



A rate

B speed

C mass

D height

Understand It with Pulse | Flag a mistake

16 **Kinematics is the study of motion without considering its**

A causes

B speed

C distance

D time

Understand It with Pulse | Flag a mistake

17 **An object speeds up from 10 metres per second to 30 metres per second in 5 seconds. Its acceleration, in metres per second squared, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **An object starts at 0 metres per second and accelerates at 4 metres per second squared for 6 seconds. Its final speed, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 An object starts at 10 metres per second and accelerates at 2 metres per second squared for 4 seconds. The distance travelled, in metres, is

ANSWER

Understand It with Pulse | Flag a mistake

20 A train travels 240 metres in 8 seconds at constant speed. Its speed, in metres per second, is



ANSWER

Understand It with Pulse | Flag a mistake

21 **An object starts from rest and accelerates at 3 metres per second squared over 24 metres. Its final speed, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **An object speeds up from 5 metres per second to 25 metres per second in 4 seconds. Its acceleration, in metres per second squared, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **An object starts at 8 metres per second and accelerates at 3 metres per second squared for 4 seconds. Its final speed, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **An object starts at 0 metres per second and accelerates at 4 metres per second squared for 3 seconds. The distance travelled, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A race car travels 150 metres in 3 seconds at constant speed. Its speed, in metres per second, is**



ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 5
2. 13
3. 25
4. 20
5. 8
6. A
7. C
8. B
9. C
10. B
11. C
12. A
13. B
14. D
15. A
16. A
17. 4
18. 24
19. 56
20. 30
21. 12
22. 5
23. 20
24. 18
25. 50

© 2026 Brett Robbins. All Rights Reserved.