NEW BRUNSWICK PHYSICS 111-112 · 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 travels 100 metres in 5 seconds at constant speed. Its speed, in metres per second, is**



ANSWER

Understand It with Pulse | Flag a mistake

2 **An object 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

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 **A vector quantity has both magnitude and**

A mass

B colour

C temperature

D direction

Understand It with Pulse | Flag a mistake

5 **A red apple in free fall near Earth accelerates at about**



A 9.8 metres per second squared

B 1 metre per second squared

C 20 metres per second squared

D 0 metres per second squared

Understand It with Pulse | Flag a mistake

6 **An object moving at constant velocity has acceleration equal to**

A its speed

B its distance

C zero

D gravity

Understand It with Pulse | Flag a mistake

7 **An object starts at 2 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

8 **Average speed equals total distance divided by**

A total mass

B total time

C total force

D total displacement only

Understand It with Pulse | Flag a mistake

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

A mass

B colour

C temperature

D direction

Understand It with Pulse | Flag a mistake

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



A speed

B distance

C causes

D time

Understand It with Pulse | Flag a mistake

11 **An object travels 240 metres in 8 seconds at constant speed. Its speed, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **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

13 **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

14 **An object travels 150 metres in 3 seconds at constant speed. Its speed, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

15 **A race car 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

16 **An object starts at 0 metres per second and accelerates at 4 metres per second squared for 6 seconds. The distance travelled, in metres, is**

ANSWER

Understand It with Pulse | Flag a mistake

17 **An object travels 360 metres in 12 seconds at constant speed. Its speed, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **An object speeds up from 0 metres per second to 30 metres per second in 6 seconds. Its acceleration, in metres per second squared, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

19 **An object starts at 5 metres per second and accelerates at 3 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 200 metres in 4 seconds at constant speed. Its speed, in metres per second, is**



ANSWER

Understand It with Pulse | Flag a mistake

21 **An object speeds up from 0 metres per second to 24 metres per second in 8 seconds. Its acceleration, in metres per second squared, is**

ANSWER

Understand It with Pulse | Flag a mistake

22 **An object starts at 0 metres per second and accelerates at 5 metres per second squared for 4 seconds. The distance travelled, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

23 **An object travels 500 metres in 10 seconds at constant speed. Its speed, in metres per second, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **An object speeds up from 20 metres per second to 40 metres per second in 5 seconds. Its acceleration, in metres per second squared, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A race car travels 100 metres in 2 seconds at constant speed. Its speed, in metres per second, is**



ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	20	**10.**	C	**19.**	44
2.	5	**11.**	30	**20.**	50
3.	25	**12.**	4	**21.**	3
4.	D	**13.**	56	**22.**	40
5.	A	**14.**	50	**23.**	50
6.	C	**15.**	5	**24.**	4
7.	14	**16.**	72	**25.**	50
8.	B	**17.**	30		
9.	D	**18.**	5		

© 2026 Brett Robbins. All Rights Reserved.