NEWFOUNDLAND AND LABRADOR PHYSICS 2204 · UNIT A

Kinematics — Practice Test

Newfoundland and Labrador Physics 2204 • 25 questions

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 m in 20 s at constant speed. Its speed, in metres per second, is**



ANSWER

Understand It with Pulse | Flag a mistake

2 **An object moves at 8 m per second for 7 s. The distance travelled, in metres, is**

ANSWER

Understand It with Pulse | Flag a mistake

3 **An object accelerates from rest to 12 m per second in 3 s. Its acceleration, in metres per second squared, is**

ANSWER

Understand It with Pulse | Flag a mistake

4 **An object starts at 0 m per second and accelerates at 3 m per second squared for 7 s. Its final speed, in metres per second, is**

ANSWER

Understand It with Pulse | Flag a mistake

5 **A race car starts from rest and accelerates at 4 m per second squared for 3 s. Its displacement, in metres, is**



ANSWER

Understand It with Pulse | Flag a mistake

6 **Review the key idea. Velocity differs from speed because velocity includes**

A mass

B direction

C time only

D acceleration only

Understand It with Pulse | Flag a mistake

7 **An object dropped from rest falls for 4 s . Using g = 9.8 m per second squared , its speed , in metres per second , is**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **Start from the definition. On a displacement time graph, the slope gives**

A acceleration

B distance only

C time

D velocity

Understand It with Pulse | Flag a mistake

9 **An object moves at a constant 10 m per second for 6 s. The area under its velocity time graph, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **A cyclist rides 3 m east and then 4 m north. The resultant displacement, in metres, is**



ANSWER _____

Understand It with Pulse | Flag a mistake

11 **A trip covers 80 km in 4 h. The average speed, in kilometres per hour, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

12 **An object is dropped from a height of 19.6 m . Using g = 9.8 m per second squared , the time to fall , in seconds , is**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **A car slows from 20 m per second to rest in 5 s. The magnitude of its acceleration, in metres per second squared, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **Consider the rule in general. On a velocity time graph, the slope gives**

A displacement

B acceleration

C speed only

D distance

Understand It with Pulse | Flag a mistake

15 A train travels 240 m in 40 s at constant speed. Its speed, in metres per second, is



ANSWER _____

Understand It with Pulse | Flag a mistake

16 An object moves at 15 m per second for 4 s. The distance travelled, in metres, is

ANSWER _____

Understand It with Pulse | Flag a mistake

17 An object accelerates from rest to 20 m per second in 4 s. Its acceleration, in metres per second squared, is

ANSWER _____

Understand It with Pulse | Flag a mistake

18 **An object starts at 3 m per second and accelerates at 4 m per second squared for 3 s. Its final speed, in metres per second, is**

ANSWER

Understand It with Pulse | Flag a mistake

19 **An object starts from rest and accelerates at 6 m per second squared for 2 s. Its displacement, in metres, is**

ANSWER

Understand It with Pulse | Flag a mistake

20 **Review the concept. For a race car, velocity differs from speed because velocity includes**



A mass

B time only

C acceleration only

D direction

Understand It with Pulse | Flag a mistake

21 **An object dropped from rest falls for 2 s . Using g = 9.8 m per second squared , its speed , in metres per second , is**

ANSWER _____

Understand It with Pulse | Flag a mistake

22 **Recall the principle. On a displacement time graph, the slope gives**

- A acceleration
- B velocity
- C distance only
- D time

Understand It with Pulse | Flag a mistake

23 **An object moves at a constant 12 m per second for 4 s. The area under its velocity time graph, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **Consider the principle in general. An object moves 3 m east and then 4 m north. Its resultant displacement, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A car trip covers 100 km in 2 h. The average speed, in kilometres per hour, is**



ANSWER

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	5	**10.**	5	**19.**	12
2.	56	**11.**	20	**20.**	D
3.	4	**12.**	2	**21.**	19.6
4.	21	**13.**	4	**22.**	B
5.	18	**14.**	B	**23.**	48
6.	B	**15.**	6	**24.**	5
7.	39.2	**16.**	60	**25.**	50
8.	D	**17.**	5		
9.	60	**18.**	15		

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