SASKATCHEWAN SCIENCE 10 · UNIT C · 25 QUESTIONS

Motion - Constant Speed and Acceleration — 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 2 m per second to 14 m per second in 4 s. The acceleration, in metres per second squared, is _____**



ANSWER

Understand It with Pulse | Flag a mistake

2 **An object starts at 2 m per second and accelerates at 3 m per second squared for 4 s. The displacement, in metres, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

3 **A boat covers 90 m in 18 s. The average speed, in metres per second, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **A bus covers 500 m in 25 s. The average speed, in metres per second, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

5 **A car covers 300 m in 15 s. The average speed, in metres per second, is _____**



ANSWER _____

Understand It with Pulse | Flag a mistake

6 **A cyclist covers 120 m in 20 s. The average speed, in metres per second, is _____**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **A displacement time graph that curves upward more and more steeply shows the object is**

- A slowing down
- B speeding up
- C at rest
- D moving at a steady speed

Understand It with Pulse | Flag a mistake

8 **A hiker covers 150 m in 30 s. The average speed, in metres per second, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

9

A quantity with both size and direction is called

A uniform motion

B displacement

C velocity

D vector

Understand It with Pulse | Flag a mistake

10

A quantity with size only and no direction is called

A average speed

B uniform motion

C scalar

D displacement

Understand It with Pulse | Flag a mistake

11 **A runner covers 200 m in 25 s. The average speed, in metres per second, is ____**



ANSWER _____

Understand It with Pulse | Flag a mistake

12 **A skater covers 80 m in 16 s. The average speed, in metres per second, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

13 **A swimmer covers 60 m in 12 s. The average speed, in metres per second, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

14 **A train covers 400 m in 20 s. The average speed, in metres per second, is ____**



ANSWER _____

Understand It with Pulse | Flag a mistake

15 **A walker covers 240 m in 40 s. The average speed, in metres per second, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

16 **Displacement divided by time, with direction is called**

A acceleration

B scalar

C vector

D velocity

Understand It with Pulse | Flag a mistake

17 **Distance divided by time, without direction is called**

A scalar

B vector

C speed

D average speed

Understand It with Pulse | Flag a mistake

18 **Motion at a constant velocity is called**

A velocity

B uniform motion

C speed

D acceleration

Understand It with Pulse | Flag a mistake

19 **On a displacement time graph, the slope of the line gives**

A acceleration

B velocity

C distance

D time

Understand It with Pulse | Flag a mistake

20 **On a velocity time graph, a horizontal line means the object has**

A constant velocity

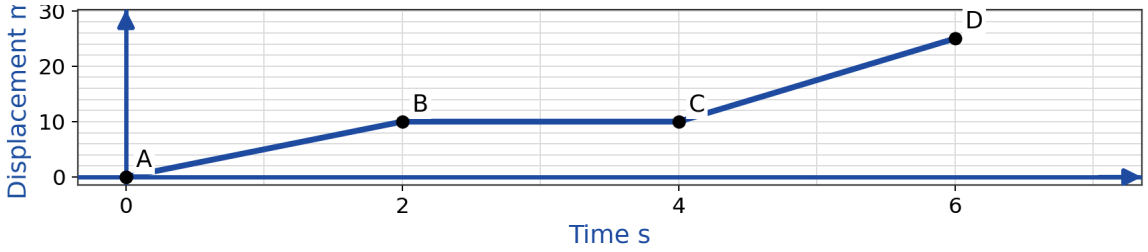
B increasing acceleration

C zero velocity

D decreasing speed

Understand It with Pulse | Flag a mistake

21 **The graph shows displacement against time. The speed from 0 s to 2 s, in metres per second, is**



A 2

B 7.5

C 5

D 10

Understand It with Pulse | Flag a mistake

22 **A race car speeds up from 5 m per second to 20 m per second in 3 s. The acceleration, in metres per second squared, is ____**



ANSWER _____

Understand It with Pulse | Flag a mistake

23 **An object starts at 3 m per second and accelerates at 2 m per second squared for 5 s. The displacement, in metres, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

24 **An object speeds up from 0 m per second to 12 m per second in 6 s. The acceleration, in metres per second squared, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

25 **A race car starts at 0 m per second and accelerates at 4 m per second squared for 3 s. The displacement, in metres, is ____**



ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	3	**10.**	C	**19.**	B
2.	32	**11.**	8	**20.**	A
3.	5	**12.**	5	**21.**	C
4.	20	**13.**	5	**22.**	5
5.	20	**14.**	20	**23.**	40
6.	6	**15.**	6	**24.**	2
7.	B	**16.**	D	**25.**	18
8.	5	**17.**	C		
9.	D	**18.**	B		

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