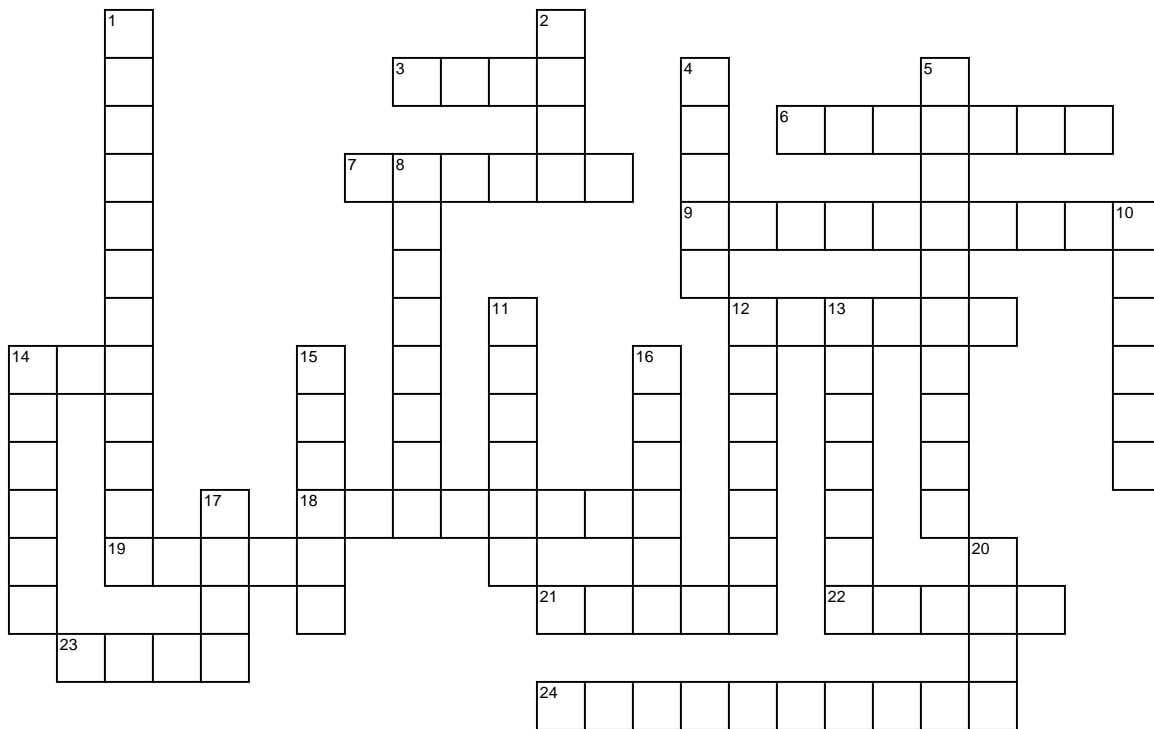


Physics – Chapter 3 – Kinematics – Form 3 ©



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ACROSS

- 3 A car completing 2 loops in a circular road of radius 200 m has a total displacement of _____ m
- 6 He was the first one to understand acceleration
- 7 In the SI system of units, the expression $v_i \cdot t + \frac{1}{2} \cdot a \cdot t^2$ gives this unit
- 9 From rest, during the _____ second the distance fallen is 5 times greater than during the 5th second
- 12 Traveling at 100 km/h is an example of a _____ quantity
- 14 When gravity is 8 m/s^2 , a released body falls _____ hundred meters in 5 s
- 18 The acceleration is _____ during uniformly accelerated motion
- 19 After falling 8 s a body travels _____ faster than after falling for 4 s
- 21 A projectile shot at _____ degrees and at 50° above the ground have the same range
- 22 For falling bodies, the acceleration at $t = 8 \text{ s}$ is _____ to the one at $t = 4 \text{ s}$
- 23 During free fall on planet Earth a body travels 49 m/s faster after _____ s
- 24 _____ motion is not an example of uniformly accelerated motion

DOWN

- 1 It is the area measured in a graph V vs. t
- 2 A car completing 5 and $\frac{1}{2}$ loops in a circular road of radius 200 m has a total displacement of _____ hundred m
- 4 The total displacement is _____ m if a student walks 30 m north to the office and then 40 m west to the gym
- 5 The study of motion
- 8 If $g = \text{_____ m/s}^2$, a body reaches a maximum height of 900 m in 10 s
- 10 For a projectile shot above the ground, this value can be the same at two different times
- 11 From rest, during the _____ second a body falls $\frac{1}{7}$ the total distance it falls in 7 seconds
- 12 This must be the initial speed in m/s if a car takes 14 s to stop for an acceleration of -5 m/s^2
- 13 _____ Velocity = Total Displacement \div Total Time
- 14 In a graph Position vs. Time, intersecting the t axis means passing the _____
- 15 Newton discovered that _____ are responsible for changes in motion
- 16 Traveling north at 100 km/h is an example of a _____ quantity
- 17 Duration of an event
- 20 Acceleration is defined as the _____ at which the velocity changes

NAME: _____ DATE: _____ PERIOD: _____

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Solution:

The crossword puzzle grid contains the following words:

- 1. DISPLACEMENT
- 2. FORCE
- 3. ZERO
- 4. FIFTY
- 5. KINETIC
- 6. GALILEO
- 7. METERS
- 8. HEIGHT
- 9. THIRTEENTH
- 10. EIGHT
- 11. FORTY
- 12. SCALAR
- 13. VECTOR
- 14. RANGE
- 15. FORM
- 16. VELOCITY
- 17. TWICE
- 18. CONSTANT
- 19. TWICE
- 20. RANGE
- 21. FORTY
- 22. EQUAL
- 23. FIVE
- 24. PROJECTILE