

# MECHANICS

## IN PHYSICS

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### BASICS

1. A car accelerates uniformly from rest to a speed of 20 m/s in 5 seconds. What is its acceleration?

Answer:  $4 \text{ m/s}^2$

2. An object is thrown vertically upward with an initial velocity of 30 m/s. What is its maximum height?

Answer: 45 meters

3. A block of mass 5 kg is pushed along a horizontal surface with a force of 20 N. If the coefficient of friction is 0.4, what is the acceleration of the block?

Answer:  $2 \text{ m/s}^2$

4. Two forces, 10 N and 15 N, act on an object in the same direction. What is the resultant force?

Answer: 25 N

# Physics Practice Problems And Answers

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## Physics Practice Problems And Answers :

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