

## FORCES AND NEWTON'S LAWS

**Reinforcement****Newton's Laws of Motion**

**Directions:** Use the equation  $F = ma$  to solve the following problems. Show your calculations in the spaces provided.

1. How much force is needed to accelerate a 1000-kg car at a rate of  $3 \text{ m/s}^2$ ?

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2. If a 70-kg swimmer pushed off a pool wall with a force of 250 N, at what rate will the swimmer accelerate from the wall?

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3. A weightlifter raises a 200-kg barbell with an acceleration of  $3 \text{ m/s}^2$ . How much force does the weightlifter use to raise the barbell?

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4. A dancer lifts his partner above his head with an acceleration of  $2.5 \text{ m/s}^2$ . The dancer exerts a force of 200 N. What is the mass of the partner?

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**Directions:** Answer the following questions on the lines provided.

5. What does Newton's second law of motion state?

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6. What two factors affect the rate of acceleration of an object?

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7. If you push on a wall with a force of 200 N, with what force does the wall push back?

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# Section 1 Reinforcement Motion And Newton S Law Of Motion

**Yijin Wang**



## **Section 1 Reinforcement Motion And Newton S Law Of Motion:**

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