

## Holt Physics

**Problem 4B****NEWTON'S SECOND LAW****PROBLEM**

A 1.5 kg ball has an acceleration of  $9.0 \text{ m/s}^2$  to the left. What is the net force acting on the ball?

**SOLUTION**

Given:  $m = 1.5 \text{ kg}$   
 $a = 9.0 \text{ m/s}^2$  to the left.

Unknown:  $F = ?$

Use Newton's second law, and solve for  $F$ .

$$F = ma$$

Because there is only one force,

$$F = F$$

$$F = (1.5 \text{ kg})(9.0 \text{ m/s}^2) = 14 \text{ N}$$

$$F = \boxed{14 \text{ N to the left}}$$

**ADDITIONAL PRACTICE**

- David Parley, a racing driver, survived deceleration from  $173 \text{ km/h}$  to  $0 \text{ km/h}$  over a distance of  $0.560 \text{ m}$  when his car crashed. Assume that Parley's mass is  $78.0 \text{ kg}$ . What is the average force acting on him during the crash? Compare this force to Parley's weight. (Hint: Calculate the average acceleration first.)
- A giant crane in Washington, D.C., was tested by lifting a  $2.000 \times 10^6 \text{ kg}$  load.
  - Find the magnitude of the force needed to lift the load with a net acceleration of  $0 \text{ m/s}^2$ .
  - If the same force is applied to pull the load up a smooth slope that makes a  $30.0^\circ$  angle with the horizontal, what would be the acceleration?
- When the click beetle jumps in the air, its acceleration upward can be as large as  $400.0$  times the acceleration due to gravity. (An acceleration this large would instantly kill any human being.) For a beetle whose mass is  $40.00 \text{ mg}$ , calculate the magnitude of the force exerted by the beetle on the ground at the beginning of the jump with gravity taken into account. Calculate the magnitude of the force with gravity neglected. Use  $9.807 \text{ m/s}^2$  as the value for free-fall acceleration.

# Holt Physics Workbook Answers 4b

**Clifford Lane**



## **Holt Physics Workbook Answers 4b:**

## Reviewing **Holt Physics Workbook Answers 4b**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Holt Physics Workbook Answers 4b**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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