

Basic Physics

Problem 4A

NET EXTERNAL FORCES

P10-10-10-10-10-10

The muscle responsible for closing the mouth is the masseter muscle in the human body. During a severe jaw spasm, there is a mean biting force of 400 N (Fig. 4.10). In addition, Phoebe recorded the force of biting as $412.9 \times 10^2 \text{ N}$. Use each force shown in the diagram below as a magnitude applied to the center of Phoebe's chin, determine the net force.

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1. CONCEPT

Identify the problem and identify the variables.

Given:

$$F_x = -4.00 \times 10^2 \text{ N}$$

$$F_y = 4.00 \times 10^2 \text{ N}$$

$$F_{\text{bite}} = 412.9 \times 10^2 \text{ N}$$

Unknown:

$$F_{\text{net}} = ?$$

Diagram:



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2. PLAN

Select a coordinate system, and apply it to the three-body diagram. Let F_x be along the negative x -axis and F_y be along the positive y -axis. Note F_y must be oriented into the page (out).

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3. CALCULATE

Find the x -components of all forces. As indicated in the sketch, the angle between F_x and the x -axis is 135.0° . Because this angle is in the quadrant bounded by the positive and negative y -axis, it has a negative value.

$$F_{x_{\text{net}}} = F_{\text{bite}} \cos(45^\circ) = (412.9 \times 10^2 \text{ N}) [\cos(45^\circ)] = 284.6 \times 10^2 \text{ N}$$

$$F_{y_{\text{net}}} = F_{\text{bite}} \sin(45^\circ) = (412.9 \times 10^2 \text{ N}) [\sin(45^\circ)] = -284.6 \times 10^2 \text{ N}$$

Find the net external forces in both the x and y directions.

For the x -direction: $\Sigma F_x = F_x + F_{x_{\text{net}}} = F_{\text{net}}$

$$\Sigma F_x = -4.00 \times 10^2 \text{ N} + 2.84 \times 10^2 \text{ N} = -6.66 \times 10^2 \text{ N}$$

For the y -direction: $\Sigma F_y = F_y + F_{y_{\text{net}}} = F_{\text{net}}$

$$\Sigma F_y = -4.00 \times 10^2 \text{ N} + -2.84 \times 10^2 \text{ N} = -6.84 \times 10^2 \text{ N}$$

Find the net external forces.

Use the Pythagorean theorem to calculate F_{net} . Use $\cos \theta = \frac{F_x}{F_{\text{net}}}$ to find the angle between the net force and the x -axis.

$$F_{\text{net}} = \sqrt{F_{x_{\text{net}}}^2 + F_{y_{\text{net}}}^2}$$

$$F_{\text{net}} = \sqrt{(6.66 \times 10^2 \text{ N})^2 + (-6.84 \times 10^2 \text{ N})^2} = \sqrt{10.00 \times 10^4 \text{ N}^2}$$

$$F_{\text{net}} = 10.00 \times 10^2 \text{ N}$$

Holt Physics Problem 4a Answers

CL Gary

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Holt Handbook Exercises Laurie G. Kirszner,1997-11-02
Rinehart & Winston,Holt, Rinehart and Winston Staff,1998-04
British National Bibliography Arthur James Wells,1967
The Christmas bookseller separately paged and not included in the consecutive numbering of the regular series
Holt Physics Teaching Resources ,2005
The Cumulative Book Index ,1963 A world list of books in the English language
Whitaker's Five-year Cumulative Book List ,1958
Whitaker's Cumulative Book List ,1958
Cumulated Index to the Books ,1953 A world list of books in the English language
El-Hi Textbooks & Serials in Print Bowker Editorial Staff,2004-02
Reteaching Worksheets with Answer Key Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,1997-01-01
British Paperbacks in Print ,1984
599 Biblioteca Luis-Ángel Arango,1970
Arango, **Catálogo general de la Biblioteca Luis-Angel Arango: Comprende: 400 a**
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