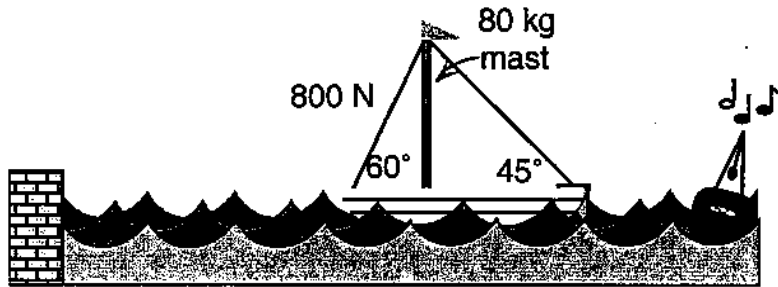


10. An 80.0 kg mast of a sailboat is maintained in its vertical position by means of guy wires, as shown in the figure. The tension in the shorter guy wire is  $8.00 \times 10^2$  N. Find the force with which the deck supports the mast.



- A. 1450 N
- B. 1880 N
- C. 2170 N

- D. 1600 N
- E. 1090 N
- F. Insufficient information

Ans. \_\_\_\_\_