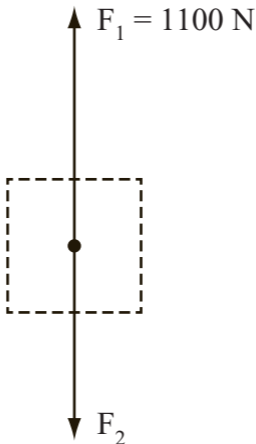


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The free-body force diagram below represents two forces, F_1 and F_2 , acting on a hot air balloon as it rises through the air.



If the net force acting on the balloon is 120 N upward, what is the magnitude of F_2 ?

- A. 980 N
- B. 1100 N
- C. 1200 N
- D. 1220 N