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She holds the book stationary against the wall as shown. Friction on the book by the wall acts

- a) upward.
- b) downward.
- c) Can't say.

ARBOR SCIENTIFIC

thanx to Arnold Arons

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Answer: c

CONCEPTUAL Physics

Why? If she barely pushes the book so the vertical component of her push is less than the book's weight, then friction acts upward to keep the book stationary. If she pushes so the vertical component of her push equals the book's weight, then there's zero wall friction on the book. Or if she pushes harder so the vertical component of her push exceeds the book's weight, then friction acts downward. So unless we know how the vertical component of her push compares with the weight of the book, Greater Push

we can't specify the direction of friction between the book and the wall.



