

## Re: How to split (or combine) magnetic force?

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Bert Harleman wrote:

There's a science quiz with the following question:

With a bar-magnet you can lift 1 kilo of steel.  
Then you split the magnet in two exact halves.  
How much can you lift at best with each of the two smaller bars?

- A. about 1 kilo
- B. about 3/4 of a kilo
- C. a bit more than 1/2 a kilo

D) Assuming the magnetization is equally distributed across the magnet  
– 1/2 kilogram.

I searched the internet for a good explanation, but without success.  
I found webpages that mentioned that you cannot simply add (or split)  
these forces.  
I also found lots of formulas but I don't know how to apply them on this  
situation.

Anyone can give me a hand?

Bert