

Multistep Ratio and Percent Word Problems

The ratio of the number of Mr. Green's books to Ms. Littleton's is 2:3. Mr. Green has 40 books. If he buys another 8 books this year what will be the new ratio of Mr. Green's books to Ms. Littleton's books?



Before:

Mr. Green



Ms. Littleton



Because we know that Mr. Green had 40 books to begin with we know how much per unit.

20 per unit:



So Ms. Littleton has **60 books**.

After:

Mr. Green



48 Total Books

Ms. Littleton



Remains Unchanged

Our new ratio is: 48 : 60 (Mr. Green's new books, Ms. Littleton's unchanged books)

48:60 is proportional to 4:5, as we have learned in earlier lessons.