

Discovery Exercise for Matrix Times Column - Multiple Value Problems

This exercise has no matrices in it, and contains no trick questions: it really is as straightforward as it seems. But if you take a few minutes to answer these questions, it will help set up our explanation of matrix multiplication in the rest of the section.

1. Every book in my collection has 200 pages.
 - (a) If I have 7 books, how many pages do I have?

 - (b) If I have b books, how many pages do I have?

 - (c) If I have p pages, how many books do I have?

2. Every book in my collection has 10 pictures and 20,000 words.
 - (a) If I have 7 books, how many pictures do I have, and how many words?

 - (b) If I have b books, how many pictures do I have, and how many words?

3. Now I have two kinds of books in my collection. Each “kiddy book” has 30 pictures and 500 words. Each “chapter book” has 10 pictures and 20,000 words.
 - (a) If I have 4 kiddy books and 6 chapter books, how many pictures do I have? How many words?

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- (b) If I have k kiddy books and c chapter books, how many pictures do I have? How many words?