

Name: Class:

GCF and LCM word problems

Lyse realized that the number of pages in his Math's book can be divisible by 4. While talking about this with his friend Claude, he points out that it can also be divisible by 7.

What is the smallest possible number of pages does the Maths book contain?



Alice and Magee have bought tomatoes on sale at two different merchants. For each tomato bought, Alice received 3 additional tomatoes. As for Magee, for every tomato she bought, she received 4 tomatoes as a bonus.



Knowing that the two women ended up with the same amounts of tomatoes after their purchase, how many tomatoes did you think Alice bought without the bonuses?

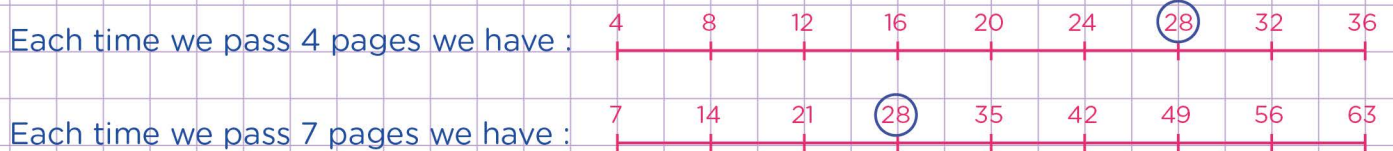
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What is the smallest possible number of pages does the Maths book contain?

1. First, let's look at the number of pages that can be obtained with each of the multiples.



2. We can notice that the multiples (4, 7) first meet at 28. So, the smallest number of pages contained in the maths book is 28.

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Knowing that the two women ended up with the same amounts of tomatoes after their purchase, how many tomatoes did you think Alice bought without the bonuses?

1. Let's look at the smallest possible number of tomatoes Alice could have bought by using the number of bonus for each tomatoe bought.

So multiples of 3 are : 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42 ...

multiples of 4 are : 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52 ...

Therefore, the common multiples of 3 and 4 are : 12, 24, 36 ... But the least one is 12.

→ Alice bought 12 tomatoes without bonuses.