

Name: ..... Class: .....

## GCF and LCM word problems

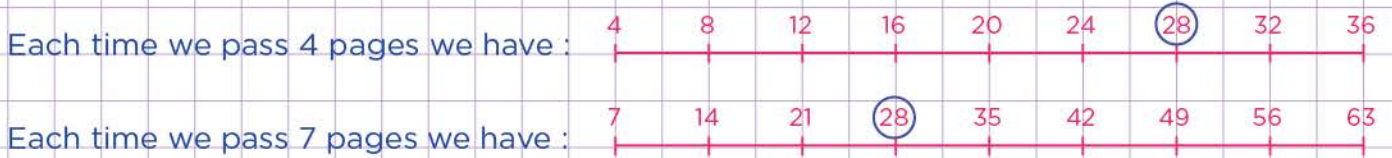
- ❖ Lyse realized that the number of pages in his Math's book can be divisible by 4. While talking about this with his friend Claude, he points out that it can also be divisible by 7. What is the smallest possible number of pages does the Maths book contain?
- ❖ Alice and Magee have bought tomatoes on 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?
- ❖ Mrs Smith wants to invite 60 guests to her daughter's grand wedding. Wedding invitations come in packs of 6, gift bags come in packs of 20, and ribbons to tie the gift come in packs of 10. What is the least number of each item she should buy to invite 60 guests and have no item left over?
- ❖ Two taps in Mrs Williams apartment drips when turned off. One drips every 15 seconds and the other drips every 40 seconds. If a drop of water falls from both taps at the same time, how many minutes will it pass before both taps drips at the same time?
- ❖ Carter and David are fun of cycling every morning. David usually cycles 9 miles while Carter likes to cycle in blocks of 4 miles. At the end of two weeks, they realize that they have cycled the same total number of miles. What is the smallest number of kilometers that each person must have cycled?
- ❖ In preparing for the upcoming science field trip, the students in Miss Sandy's class contributed a total amount of \$200 and bought 100 cans of juice, 50 hamburgers and 50 packets of potato chips for the field trip. Each student must have the same number of cans of juice, hamburgers, and packets of potato chips.
- What is the largest number of students that can go for the field trip if all the food was shared equally with no left over?
  - How many cans of juice, hamburgers, and packets of potato chips will each student get?

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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.

- ◆ Alice bought 12 tomatoes without bonuses.
- ◆ So, she should buy 10 packs of wedding invitation, 3 packs of gift bags, and 6 packs of ribbons to invite 60 guests and have no item leftover.
- ◆ So, 120 seconds will pass before both taps drip at the same time.
- ◆ So, each person must have cycled 18 kilometers at the end of two weeks.
- ◆ a- So, 50 students can go for the field trip if all the food was shared equally with no left over.  
b- So, each child will get 2 cans of juice, 1 hamburger and 1 packet of potato chips.