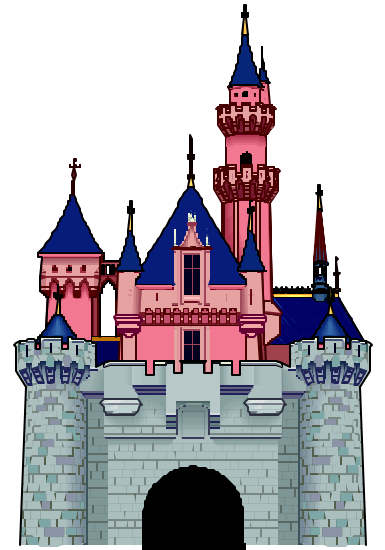


## THE QUEEN AND HER BANQUET.....

The queen asked her cook how many guests had attended a recent banquet. "I do not know, my lady," he said, " but every two guests shared a plate of fruit between them, every three used a bowl of broth among them, and every four shared a platter of beef. I used 65 serving dishes in all." The queen was able to compute the number of guests using this information.

**CAN YOU SOLVE IT?** For help, solve the problems below.



## FIND THE GREATEST COMMON FACTOR. Use prime factorization.

- Find the GCF for each pair of numbers.
- Cross all each GCFs found in the column right.
- The ONLY NUMBER LEFT will answer the problem above.

- |             |             |              |
|-------------|-------------|--------------|
| 1. 8, 32    | 2. 64, 16   | 3. 76, 57    |
| 4. 86, 36   | 5. 88, 66   | 6. 34, 51    |
| 7. 93, 39   | 8. 36, 81   | 9. 14, 45    |
| 10. 87, 29  | 11. 84, 126 | 12. 85, 35   |
| 13. 44, 99  | 14. 42, 98  | 15. 30, 75   |
| 16. 24, 78  | 17. 111, 74 | 18. 69, 115  |
| 19. 52, 117 | 20. 91, 63  | 21. 54, 90   |
| 22. 56, 140 | 23. 70, 210 | 24. 130, 195 |

19

15

29

1

2

5

7

9

60

23

13

8

11

65

3

42

14

37

6

70

18

16

28

17

22