

Find the greatest common factor of each pair of numbers.

1. 6 and 9

2. 12 and 38

3. 15 and 30

4. 27 and 31

5. 36 and 45

6. 48 and 64

7. 60 and 72

8. 75 and 100

9. 31 and 93

Find the least common multiple of each pair of numbers.

10. 2 and 4

11. 3 and 5

12. 6 and 9

13. 3 and 8

14. 4 and 6

15. 5 and 10

16. 8 and 11

17. 7 and 8

18. 9 and 12

Solve.

19. Pia has 18 carnations and 24 tulips. She wants to make flower arrangements that contain the same number of each type of flower. What is the greatest number of arrangements Pia can make?

20. Michael goes jogging every 3 days. He exercises at the gym every 4 days. In how many days will Michael first jog and exercise at the gym on the same day?

21. Selena buys the same number of paper cups and paper plates for a party. Cups are sold in packages of 10. Plates are sold in packages of 6. What is the least number of paper cups that Selena buys?
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22. Mr. Edwards has 45 sheets of green paper and 60 sheets of orange paper. He divides all of the paper into stacks. Each stack has the same amount of green and orange paper. What is the greatest number of stacks of paper that Mr. Edwards can make?
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23. Willa wants to make craft bags for her art club friends. Glitter jars come in packages of 5. Calligraphy pens come in packages of 4. What is the least number of glitter jars and calligraphy pens that Willa can buy to have an equal number of each?
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24. Antoine has 35 baseball cards and 14 football cards. He wants to put the same numbers of baseball and football cards on each page of an album. What is the greatest number of album pages that Antoine will need?
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25. Margaret plants 72 squash seeds and 90 zucchini seeds in equal rows in her garden. She plants the same number of each type of seed in each row. What is the greatest number of rows that Margaret plants?
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26. Ms. Kim buys new pencils and pens for her students. Pencils come in packages of 12, and pens come in packages of 8. What is the least number of pencils that Ms. Kim needs to buy to have an equal number of each?
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Choose the best answer.

27. The least common multiple of two numbers is a multiple of both 8 and 12. What is the least common multiple?
- A. 16
B. 24
C. 48
D. 96
28. The greatest common factor of two numbers is 3. Their least common multiple is less than 20. Which could **not** be the two numbers?
- A. 3 and 9
B. 3 and 12
C. 6 and 9
D. 6 and 12