

Instructions

For each question, read carefully and provide your answer in the space provided. Show your work where needed. Good luck!

1. Identify the factors of the following numbers:

a) 18

b) 24

2. List the first five multiples of:

a) 5

b) 7

3. What are the common factors of 12 and 18?

4. Real-World Applications:

a) You have 15 cookies to share equally among 5 friends. How many cookies will each friend get? Why is 5 a factor of 15 in this situation?

b) A bookshelf has 12 books arranged in 4 rows. How many books are in each row? What multiples of 4 are relevant here?

5. Problem Solving:

a) A teacher wants to split 18 students into groups of equal size for a project. If each group has 3 students, how many groups will there be? List the factors that make this possible.

b) A playlist has 24 songs. If you want to divide them into playlists of 4 songs each, how many playlists can you make? What multiples are involved?

6. Challenge Question:

Imagine you are planning a garden with rows of flowers. If you want to plant 16 flowers in rows of 4, or 8 flowers in rows of 2, what is the smallest number that is a common multiple of 4 and 8? Explain your reasoning.