

1.6 Enrichment and Extension**Using the GCF to find the LCM**

The GCF of a pair of numbers can be used to find the LCM of the numbers. To find the LCM, divide the product of the pair of numbers by the GCF.

Example: Find the LCM of 8 and 12.

Step 1: Find the product of 8 and 12.

$$12 \times 8 = 96$$

Step 2: Find the GCF of 8 and 12.

Factors of 12: 1, 2, 3, ④ 6, 12

Factors of 8: 1, 2, ④ 8

The GCF of 8 and 12 is 4.

Step 3: Divide the product by the GCF.

$$\frac{96}{4} = 24$$

So, the LCM of 8 and 12 is 24.

Find the LCM of the numbers.

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| 1. 6, 56 | 2. 6, 34 |
| 3. 4, 36 | 4. 18, 22 |
| 5. 22, 38 | 6. 12, 28 |
| 7. 15, 45 | 8. 27, 33 |
| 9. 28, 32 | 10. 14, 26 |
| 11. 15, 21 | 12. 12, 39 |