

Lesson 6-13 • Apply Day

Reinforce Understanding

6.13 • Part II

I can write a number as a product of its prime factors using a factor tree.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. Build a new factor tree for 42. Write the prime factorization.

Complete each step, then write the final answer.

1. The smallest prime factor of 42 is ____.
2. $42 \div 2 =$ ____.
3. Keep splitting until every end number is prime. Write the prime factorization: ____.

Answer: _____

2. Build a new factor tree for 54. Write the prime factorization.

Complete each step, then write the final answer.

1. The smallest prime factor of 54 is ____.
2. $54 \div 2 =$ ____.
3. Keep splitting until every end number is prime. Write the prime factorization: ____.

Answer: _____

3. Build a new factor tree for 66. Write the prime factorization.

Complete each step, then write the final answer.

1. The smallest prime factor of 66 is ____.
2. $66 \div 2 =$ ____.
3. Keep splitting until every end number is prime. Write the prime factorization: ____.

Answer: _____