Task card 1 Prime Factorization

Write 70 as a product of prime factors. List the primes from least to greatest, with commas.

Task card 2 Prime Factorization

Which number has the prime factorization 2^3?

Task card 3 Prime Factorization

Write 20 as a product of prime factors. List the primes from least to greatest, with commas.

Task card 4 Prime Factorization

Fill in the missing exponent: $28 = 2^{__} \times 7$

Task card 5 Prime Factorization

Write 18 as a product of prime factors. List the primes from least to greatest, with commas.

Task card 6 Prime Factorization

Write 42 as a product of prime factors. List the primes from least to greatest, with commas.

Task card 7 Prime Factorization

Which number has the prime factorization 2×5^2?

Task card 8 Prime Factorization

Fill in the missing exponent: $63 = 3__ \times 7$

Task card 9 Prime Factorization

Write 12 as a product of prime factors. List the primes from least to greatest, with commas.

Task card 10 Prime Factorization

Write 126 as a product of prime factors. List the primes from least to greatest, with commas.

Task card 11 Prime Factorization

Fill in the missing exponent: $56 = 2__ \times 7$

Task card 12 Prime Factorization

Which number has the prime factorization $3^3 \times 5$?

Task card 13 Prime Factorization

Write 150 as a product of prime factors. List the primes from least to greatest, with commas.

Task card 14 Prime Factorization

What is the greatest prime factor of 30?

Task card 15 Prime Factorization

Fill in the missing exponent: $16 = 2^{__}$

Task card 16 Prime Factorization

Write 50 as a product of prime factors. List the primes from least to greatest, with commas.

Task card 17 Prime Factorization

Which number has the prime factorization $2^2 \times 7$?

Task card 18 Prime Factorization

Fill in the missing exponent: $12 = 2^{__} \times 3$

Task card 19 Prime Factorization

Write 8 as a product of prime factors. List the primes from least to greatest, with commas.

Task card 20 Prime Factorization

Write 30 as a product of prime factors. List the primes from least to greatest, with commas.

Task card 21 Prime Factorization

Which number has the prime factorization 3^3?

Task card 22 Prime Factorization

Fill in the missing exponent: $8 = 2__$

Task card 23 Prime Factorization

Write 27 as a product of prime factors. List the primes from least to greatest, with commas.

Task card 24 Prime Factorization

Fill in the missing exponent: $50 = 2 \times 5__$

Prime Factorization Task Cards

Recording sheet · Grade 6 · Answer each question. When you list prime factors, write them from least to greatest with commas between them, like 2, 2, 3.

Name: _____ Date: _____

Scan to check your answers

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16
17	18	19	20
21	22	23	24

Prime Factorization Task Cards: Answer Key

Grade 6 · Easy

The answers online

1. 2, 5, 7	**2.** 8	**3.** 2, 2, 5
4. 2	**5.** 2, 3, 3	**6.** 2, 3, 7
7. 50	**8.** 2	**9.** 2, 2, 3
10. 2, 3, 3, 7	**11.** 3	**12.** 135
13. 2, 3, 5, 5	**14.** 5	**15.** 4
16. 2, 5, 5	**17.** 28	**18.** 2
19. 2, 2, 2	**20.** 2, 3, 5	**21.** 27
22. 3	**23.** 3, 3, 3	**24.** 2