Task card 1 Prime Factorization

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

Task card 2 Prime Factorization

Fill in the missing exponent: $90 = 2 \times 3__ \times 5$

Task card 3 Prime Factorization

Which number has the prime factorization 2×7^2?

Task card 4 Prime Factorization

Write 40 as a product of prime factors. List the primes from least to greatest, with commas.

Task card 5 Prime Factorization

How many different prime factors does 70 have?

Task card 6 Prime Factorization

Fill in the missing exponent: $60 = 2__ \times 3 \times 5$

Task card 7 Prime Factorization

Write 108 as a product of prime factors. List the primes from least to greatest, with commas.

Task card 8 Prime Factorization

Fill in the missing exponent: $72 = 2^{__} \times 3^2$

Task card 9 Prime Factorization

Which number has the prime factorization $2 \times 5 \times 7^2$?

Task card 10 Prime Factorization

Write 252 as a product of prime factors. List the primes from least to greatest, with commas.

Task card 11 Prime Factorization

What is the greatest prime factor of 60?

Task card 12 Prime Factorization

Fill in the missing exponent: $420 = 2^{__} \times 3 \times 5 \times 7$

Task card 13 Prime Factorization

Write 36 as a product of prime factors. List the primes from least to greatest, with commas.

Task card 14 Prime Factorization

Fill in the missing exponent: $220 = 2__ \times 5 \times 11$

Task card 15 Prime Factorization

Which number has the prime factorization $2^2 \times 3^2$?

Task card 16 Prime Factorization

Write 132 as a product of prime factors. List the primes from least to greatest, with commas.

Task card 17 Prime Factorization

How many different prime factors does 80 have?

Task card 18 Prime Factorization

Fill in the missing exponent: $80 = 2__ \times 5$

Task card 19 Prime Factorization

Write 100 as a product of prime factors. List the primes from least to greatest, with commas.

Task card 20 Prime Factorization

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

Task card 21 Prime Factorization

Which number has the prime factorization $2^2 \times 3 \times 5$?

Task card 22 Prime Factorization

How many different prime factors does 18 have?

Task card 23 Prime Factorization

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

Task card 24 Prime Factorization

Which number has the prime factorization $2^2 \times 11^2$?

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 · Medium

The answers online

1. 2, 2, 3	**2.** 2	**3.** 98
4. 2, 2, 2, 5	**5.** 3	**6.** 2
7. 2, 2, 3, 3, 3	**8.** 3	**9.** 490
10. 2, 2, 3, 3, 7	**11.** 5	**12.** 2
13. 2, 2, 3, 3	**14.** 2	**15.** 36
16. 2, 2, 3, 11	**17.** 2	**18.** 4
19. 2, 2, 5, 5	**20.** 2	**21.** 60
22. 2	**23.** 2, 3, 3, 7	**24.** 484