

Name _____

Date _____



GREATEST COMMON FACTOR SHEET 1B

For each problem below, write out the **prime factorization** of each number to find the GCF. Then follow the instructions below:

- If there are no common factors, then the gcf is 1.
- If there is just one common prime factor, that is the gcf.
- If there are more than 1 common prime factors, then multiply them to find the gcf.

Example: Find the greatest common factor of 20 and 12.

Prime Factorization of 20: $2 \times 2 \times 5$ Prime Factorization of 12: $2 \times 2 \times 3$.

There is more than one common factor, so the greatest common factor is $2 \times 2 = 4$.

1) Find the greatest common factor of 20 and 25.

Prime Factorization of 20: ___ x ___ x ___ Prime Factorization of 25: ___ x ___

Greatest common factor is _____.

2) Find the greatest common factor of 28 and 12.

Prime Factorization of 28: _____

Prime Factorization of 12: _____

Greatest common factor is _____.

3) Find the greatest common factor of 15 and 24.

Prime Factorization of 15: _____

Prime Factorization of 24: _____

Greatest common factor is _____.

4) Find the greatest common factor of 14 and 11.

Prime Factorization of 14: _____

Prime Factorization of 11: _____

Greatest common factor is _____.



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GREATEST COMMON FACTOR SHEET 1B ANSWERS

1) Find the greatest common factor of 20 and 25.

Prime Factorization of 20: $2 \times 2 \times 5$

Prime Factorization of 25: 5×5

Greatest common factor is 5

2) Find the greatest common factor of 28 and 12.

Prime Factorization of 28: $2 \times 2 \times 7$

Prime Factorization of 12: $2 \times 2 \times 3$

Greatest common factor is $2 \times 2 = 4$

3) Find the greatest common factor of 15 and 24.

Prime Factorization of 15: 3×5

Prime Factorization of 24: $2 \times 2 \times 2 \times 3$

Greatest common factor is 3

4) Find the greatest common factor of 14 and 11.

Prime Factorization of 14: 2×7

Prime Factorization of 11: 11 (prime)

Greatest common factor is 1.

