

Name _____

Date _____



GREATEST COMMON FACTOR SHEET 2B

For each problem below, write out the lists of factors to find the GCF.

1) Find the greatest common factor of 18 and 24.

Prime Factorization of 18: _____

Prime Factorization of 24: _____

The greatest common factor is _____.

2) Find the highest common factor of 30 and 25.

Prime Factorization of 30: _____

Prime Factorization of 25: _____

The highest common factor is _____.

3) Find the greatest common factor of 21 and 28.

Prime Factorization of 21: _____

Prime Factorization of 28: _____

The greatest common factor is _____.

4) Find the highest common factor of 24 and 25.

Prime Factorization of 24: _____

Prime Factorization of 25: _____

The highest common factor is _____.

5) Find the greatest common divisor of 27 and 36.

Prime Factorization of 27: _____

Prime Factorization of 36: _____

The greatest common divisor is _____.

Note: the highest common factor and the greatest common divisor mean the same as the greatest common factor.



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GREATEST COMMON FACTOR SHEET 2B ANSWERS

1) Find the greatest common factor of 18 and 24.

Prime Factorization of 18: $2 \times 3 \times 3$

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

The greatest common factor is $2 \times 3 = 6$

2) Find the highest common factor of 30 and 25.

Prime Factorization of 30: $2 \times 3 \times 5$

Prime Factorization of 25: 5×5

The highest common factor is 5.

3) Find the greatest common factor of 21 and 28.

Prime Factorization of 21: 3×7

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

The greatest common factor is 7.

4) Find the highest common factor of 24 and 25.

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

Prime Factorization of 25: 5×5

The highest common factor is 1.

5) Find the greatest common divisor of 27 and 36.

Prime Factorization of 27: $3 \times 3 \times 3$

Prime Factorization of 36: $2 \times 2 \times 3 \times 3$

The greatest common divisor is $3 \times 3 = 9$