



# GREATEST COMMON FACTOR SHEET 5B

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

1) Find the greatest common factor of 20, 15, and 12.

*Prime Factorization of 20:*

*Prime Factorization of 15:*

*Prime Factorization of 12:*

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- $GCF(20, 15, 12) =$  \_\_\_\_\_.

2) Find the greatest common factor of 21, 35, and 28.

*Prime Factorization of 21:*

*Prime Factorization of 35:*

*Prime Factorization of 28:*

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- $GCF(21, 35, 28) =$  \_\_\_\_\_.

3) Find the greatest common factor of 24, 18, and 30.

*Prime Factorization of 24:*

*Prime Factorization of 18:*

*Prime Factorization of 30:*

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- $GCF(24, 18, 30) =$  \_\_\_\_\_.

4) Find the greatest common factor of 40, 28, and 18.

*Prime Factorization of 40:*

*Prime Factorization of 28:*

*Prime Factorization of 18:*

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- $GCF(40, 28, 18) =$  \_\_\_\_\_.





# GREATEST COMMON FACTOR SHEET 5B ANSWERS

1) Find the greatest common factor of 20, 15, and 12.

Prime Factorization of 20:  $\underline{2 \times 2 \times 5}$

Prime Factorization of 15:  $\underline{3 \times 5}$

Prime Factorization of 12:  $\underline{2 \times 2 \times 3}$

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- $GCF(20, 15, 12) = \underline{1}$

2) Find the greatest common factor of 21, 35, and 28.

Prime Factorization of 21:  $\underline{3 \times 7}$

Prime Factorization of 35:  $\underline{5 \times 7}$

Prime Factorization of 28:  $\underline{2 \times 2 \times 7}$

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- $GCF(21, 35, 28) = \underline{7}$

3) Find the greatest common factor of 24, 18, and 30.

Prime Factorization of 24:  $\underline{2 \times 2 \times 2 \times 3}$

Prime Factorization of 18:  $\underline{2 \times 3 \times 3}$

Prime Factorization of 30:  $\underline{2 \times 3 \times 5}$

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- $GCF(24, 18, 30) = \underline{2 \times 3 = 6}$

4) Find the greatest common factor of 40, 28, and 18.

Prime Factorization of 40:  $\underline{2 \times 2 \times 2 \times 5}$

Prime Factorization of 28:  $\underline{2 \times 2 \times 7}$

Prime Factorization of 18:  $\underline{2 \times 3 \times 3}$

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- $GCF(40, 28, 18) = \underline{2}$