

Name \_\_\_\_\_

Date \_\_\_\_\_



## GREATEST COMMON FACTOR SHEET 3A

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

1) Find the greatest common factor of 22 and 44.

*Factors of 22:* \_\_\_\_\_

*Factors of 44:* \_\_\_\_\_

*The greatest common factor is \_\_\_\_\_.*

2) Find the highest common factor of 45 and 27.

*Factors of 45:* \_\_\_\_\_

*Factors of 27:* \_\_\_\_\_

*The highest common factor is \_\_\_\_\_.*

3) Find the greatest common factor of 42 and 35.

*Factors of 42:* \_\_\_\_\_

*Factors of 35:* \_\_\_\_\_

*The greatest common factor is \_\_\_\_\_.*

4) Find the highest common factor of 50 and 21.

*Factors of 50:* \_\_\_\_\_

*Factors of 21:* \_\_\_\_\_

*The highest common factor is \_\_\_\_\_.*

5) Find the greatest common divisor of 51 and 42.

*Factors of 51:* \_\_\_\_\_

*Factors of 42:* \_\_\_\_\_

*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 3A ANSWERS

1) Find the greatest common factor of 22 and 44.

Factors of 22: 1, 2, 11, 22

Factors of 44: 1, 2, 4, 11, 22, 44

The greatest common factor is 22.

2) Find the highest common factor of 45 and 27.

Factors of 45: 1, 3, 5, 9, 15, 45

Factors of 27: 1, 3, 9, 27

The highest common factor is 9.

3) Find the greatest common factor of 42 and 35.

Factors of 42: 1, 2, 3, 6, 7, 14, 21, 42

Factors of 35: 1, 5, 7, 35

The greatest common factor is 7.

4) Find the highest common factor of 50 and 21.

Factors of 50: 1, 2, 5, 10, 25, 50

Factors of 21: 1, 3, 7, 21

The highest common factor is 1.

5) Find the greatest common divisor of 51 and 42.

Factors of 51: 1, 3, 17, 51

Factors of 42: 1, 2, 3, 6, 7, 14, 21, 42

The greatest common divisor is 3.