Student Name: _____

List the common factors and find GCF.

List the factors	GCF	List the factors	GCF

1. 2: <u>1</u>, <u>2</u>
   4: <u>1</u>, <u>2</u>, 4
	2	8. 3: <u>1</u>, <u>3</u>
		   18: <u>1</u>, 3, 6, 18	

2. 5:
   10:
		9. 5:
		   15:	

3. 10:
   15:
		10. 18:
		   15:	

4. 13:
   15:
		11. 12:
		   15:	

5. 12:
   14:
		12. 12:
		   14:	

6. 14:
   7:
		13. 14:
		   2:	

7. 3:
   15:
		14. 20:
		   15:	

Directions: List all the factors of each number, find the common factors, and determine the **Greatest Common Factor (GCF).**

1. 12, 18, 24

- 12 = _____
- 18 = _____
- 24 = _____
- Common Factors = _____
- **GCF =** _____

2. 15, 30, 45

- 15 = _____
- 30 = _____
- 45 = _____
- Common Factors = _____
- **GCF =** _____

3. 20, 25, 30

- 20 = _____
- 25 = _____
- 30 = _____
- Common Factors = _____
- **GCF =** _____

4. 14, 28, 42, 56

- 14 = _____
- 28 = _____
- 42 = _____
- 56 = _____
- Common Factors = _____
- **GCF =** _____

5. 36, 54, 90

- 36 = _____
- 54 = _____
- 90 = _____
- Common Factors = _____
- **GCF =** _____

Directions: Write the prime factorization of each number. Circle the common prime factors. Multiply them to find the **GCF**.

6. 24, 36, 60

- 24 = _____
- 36 = _____
- 60 = _____
- Common Prime Factors = _____
- **GCF =** _____

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7. 32, 40, 48

- 32 = _____
- 40 = _____
- 48 = _____
- Common Prime Factors = _____
- **GCF =** _____

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8. 18, 27, 81

- 18 = _____
- 27 = _____
- 81 = _____
- Common Prime Factors = _____
- **GCF =** _____

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9. 70, 105, 140

- 70 = _____
- 105 = _____
- 140 = _____
- Common Prime Factors = _____
- **GCF =** _____

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10. 45, 60, 75

- 45 = _____
- 60 = _____
- 75 = _____
- Common Prime Factors = _____
- **GCF =** _____

Directions: Use continuous division to find the GCF. Show your division steps and write the final GCF.

11. 36, 60, 84

- Steps:

- **GCF = _____**

12. 64, 96, 128

- Steps:

- **GCF = _____**

13. 42, 56, 70

- Steps:

- **GCF = _____**

14. 50, 100, 150, 200

- Steps:

- **GCF = _____**

15. 18, 30, 45

- Steps:

- **GCF = _____**