

Name _____ Period _____ Date _____

Factor Trees and GCF

Find the prime factorization of each number by making a factor tree.

1. 100 2. 325 3. 99 4. 252

5. 385 6. 98 7. 80 8. 264

Find the GCF (greatest common factor) for the following numbers.

9. 100 and 50 10. 130 and 45 11. 25 and 120

12. 98 and 264 13. 100 and 325 14. 252 and 80

Bonus: What is a prime number? Give an example.

Name _____ **ANSWER KEY** _____ Period _____ Date _____

Factor Trees and GCF

Find the prime factorization of each number by making a factor tree.

1. 100

$$2 \cdot 2 \cdot 5 \cdot 5$$

2. 325

$$5 \cdot 5 \cdot 13$$

3. 99

$$3 \cdot 3 \cdot 11$$

4. 252

$$2 \cdot 2 \cdot 3 \cdot 3 \cdot 7$$

5. 385

$$5 \cdot 7 \cdot 11$$

6. 98

$$2 \cdot 7 \cdot 7$$

7. 80

$$2 \cdot 2 \cdot 2 \cdot 2 \cdot 5$$

8. 264

$$2 \cdot 2 \cdot 2 \cdot 3 \cdot 11$$

Find the GCF (greatest common factor) for the following numbers.

9. 100 and 50

50

10. 130 and 45

5

11. 25 and 120

5

12. 98 and 264

2

13. 100 and 325

25

14. 252 and 80

4

Bonus: What is a prime number? Give an example.

A prime number is a number whose only factors are 1 and itself. For example: 2, 3, 5, 7, 11, 13, 17, ...