Name: _____ Date: _____

Common Factors

Grades 4–6 • 31 questions • Part A: list the factors of both numbers, then the common factors

1. Factors of 8: _____ Factors of 12: _____

   Common factors: _____

2. Factors of 10: _____ Factors of 15: _____

   Common factors: _____

3. Factors of 12: _____ Factors of 18: _____

   Common factors: _____

4. Factors of 16: _____ Factors of 24: _____

   Common factors: _____

5. Factors of 14: _____ Factors of 21: _____

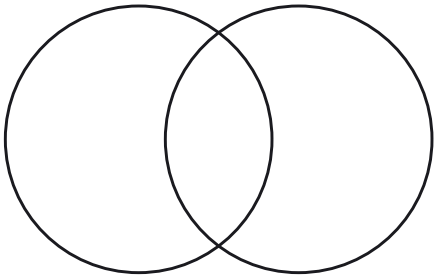
   Common factors: _____

6. Factors of 9: _____ Factors of 16: _____

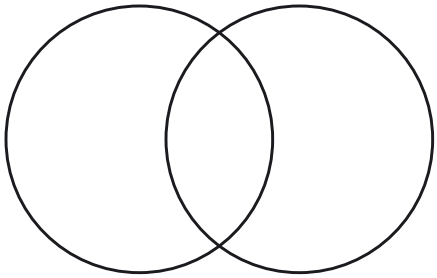
   Common factors: _____

Part B • Fill in each Venn diagram. Shared factors go in the middle

7. Factors of 12 Factors of 20



8. Factors of 18 Factors of 27



Name: _____ Date: _____

Common Factors

Part C • The greatest common factor • Part D: common multiples • Part E: problems

Part C • Find the greatest common factor (GCF)

9. GCF of 6 and 9 _____
10. GCF of 12 and 16 _____
11. GCF of 15 and 25 _____
12. GCF of 18 and 24 _____
13. GCF of 20 and 28 _____
14. GCF of 24 and 32 _____
15. GCF of 27 and 36 _____
16. GCF of 30 and 45 _____
17. GCF of 14 and 35 _____
18. GCF of 40 and 60 _____
19. GCF of 11 and 13 _____
20. GCF of 21 and 28 _____

Part D • Write the first two common multiples

21. 2 and 3: _____
22. 3 and 4: _____
23. 4 and 6: _____
24. 5 and 10: _____
25. 6 and 8: _____
26. 6 and 9: _____

Part E • Problems

27. Leo has 12 apples and 18 pears. He puts them in identical bags with none left over. What is the greatest number of bags?

    Answer: _____

28. Which two numbers less than 10 have only 1 as a common factor? Give one pair.

    Answer: _____

29. List all the common factors of 24, 36 and 48.

    Answer: _____

30. Simplify 16/40 by dividing by the GCF.

    Answer: _____

31. Why is 1 a common factor of every pair of numbers?

    Answer: _____

Answer Key — Common Factors

1. 1, 2, 4, 8 / 1, 2, 3, 4, 6, 12 → 1, 2, 4
2. 1, 2, 5, 10 / 1, 3, 5, 15 → 1, 5
3. 1, 2, 3, 4, 6, 12 / 1, 2, 3, 6, 9, 18 → 1, 2, 3, 6
4. 1, 2, 4, 8, 16 / 1, 2, 3, 4, 6, 8, 12, 24 → 1, 2, 4, 8
5. 1, 2, 7, 14 / 1, 3, 7, 21 → 1, 7
6. 1, 3, 9 / 1, 2, 4, 8, 16 → 1
7. 12 only: 3, 6, 12; both: 1, 2, 4; 20 only: 5, 10, 20
8. 18 only: 2, 6, 18; both: 1, 3, 9; 27 only: 27
9. 3
10. 4
11. 5
12. 6
13. 4
14. 8
15. 9
16. 15
17. 7
18. 20
19. 1
20. 7
21. 6, 12
22. 12, 24
23. 12, 24
24. 10, 20
25. 24, 48
26. 18, 36
27. 6 bags (GCF of 12 and 18)
28. any coprime pair, e.g. 4 and 9
29. 1, 2, 3, 4, 6, 12
30. 2/5 (GCF 8)
31. 1 divides every whole number