

Name: _____

Date: _____

Factoring (GCF)

Grades 6 – 8 • 50 questions • Show your work

1. Factor: $12x - 21 =$ _____

2. Factor: $6x - 12 =$ _____

3. Factor: $25x + 20 =$ _____

4. Factor: $15x + 9 =$ _____

5. Factor: $30x + 5 =$ _____

6. Factor: $4x - 14 =$ _____

7. Factor: $5x + 5 =$ _____

8. Factor: $20x - 5 =$ _____

9. Factor: $16x + 20 =$ _____

10. Factor: $30x - 25 =$ _____

11. Factor: $30x + 35 =$ _____

12. Factor: $10x + 2 =$ _____

13. Factor: $3x + 3 =$ _____

14. Factor: $10x + 25 =$ _____

15. Factor: $15x + 27 =$ _____

16. Factor: $15x + 6 =$ _____

17. Factor: $16x + 36 =$ _____

18. Factor: $24x + 42 =$ _____

19. Factor: $8x + 28 =$ _____

20. Factor: $16x - 36 =$ _____

21. Factor: $15x + 25 =$ _____

22. Factor: $4x + 6 =$ _____

23. Factor: $15x - 20 =$ _____

24. Factor: $24x - 28 =$ _____

25. Factor: $20x + 24 =$ _____

26. Factor: $6x + 14 =$ _____

27. Factor: $36x - 30 =$ _____

29. Factor: $30x + 12 =$ _____

31. Factor: $9x + 6 =$ _____

33. Factor: $4x + 20 =$ _____

35. Factor: $24x - 30 =$ _____

37. Factor: $12x + 54 =$ _____

39. Factor: $20x - 25 =$ _____

41. Factor: $18x + 21 =$ _____

43. Factor: $15x - 27 =$ _____

45. Factor: $30x + 6 =$ _____

47. Factor: $16x - 4 =$ _____

49. Factor: $6x + 10 =$ _____

28. Factor: $2x + 10 =$ _____

30. Factor: $3x + 24 =$ _____

32. Factor: $6x + 24 =$ _____

34. Factor: $2x - 14 =$ _____

36. Factor: $12x - 3 =$ _____

38. Factor: $2x + 4 =$ _____

40. Factor: $12x - 32 =$ _____

42. Factor: $6x - 10 =$ _____

44. Factor: $18x - 24 =$ _____

46. Factor: $2x + 12 =$ _____

48. Factor: $18x - 42 =$ _____

50. Factor: $3x - 12 =$ _____

Answer Key – Factoring (GCF)

1. $3(4x - 7)$

2. $6(x - 2)$

3. $5(5x + 4)$

4. $3(5x + 3)$

5. $5(6x + 1)$

6. $2(2x - 7)$

7. $5(x + 1)$

8. $5(4x - 1)$

9. $4(4x + 5)$

10. $5(6x - 5)$

11. $5(6x + 7)$

12. $2(5x + 1)$

13. $3(x + 1)$

14. $5(2x + 5)$

15. $3(5x + 9)$

16. $3(5x + 2)$

17. $4(4x + 9)$

18. $6(4x + 7)$

19. $4(2x + 7)$

20. $4(4x - 9)$

21. $5(3x + 5)$

22. $2(2x + 3)$

23. $5(3x - 4)$

24. $4(6x - 7)$

25. $4(5x + 6)$

26. $2(3x + 7)$

27. $6(6x - 5)$

28. $2(x + 5)$

29. $6(5x + 2)$

30. $3(x + 8)$

31. $3(3x + 2)$

32. $6(x + 4)$

33. $4(x + 5)$

34. $2(x - 7)$

35. $6(4x - 5)$

36. $3(4x - 1)$

37. $6(2x + 9)$

38. $2(x + 2)$

39. $5(4x - 5)$

40. $4(3x - 8)$

41. $3(6x + 7)$

42. $2(3x - 5)$

43. $3(5x - 9)$

44. $6(3x - 4)$

45. $6(5x + 1)$

46. $2(x + 6)$

47. $4(4x - 1)$

48. $6(3x - 7)$

49. $2(3x + 5)$

50. $3(x - 4)$
