

Name: _____

Date: _____

Prime Factorization

Grades 4 – 5 • 50 questions • Show your work

1. Write **64** as a product of prime factors. _____
 2. Write **18** as a product of prime factors. _____
 3. Write **63** as a product of prime factors. _____
 4. Write **95** as a product of prime factors. _____
 5. Write **85** as a product of prime factors. _____
 6. Write **74** as a product of prime factors. _____
 7. Write **15** as a product of prime factors. _____
 8. Write **42** as a product of prime factors. _____
 9. Write **34** as a product of prime factors. _____
 10. Write **54** as a product of prime factors. _____
 11. Write **90** as a product of prime factors. _____
 12. Write **12** as a product of prime factors. _____
 13. Write **10** as a product of prime factors. _____
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- 14.** Write **26** as a product of prime factors. _____
- 15.** Write **84** as a product of prime factors. _____
- 16.** Write **44** as a product of prime factors. _____
- 17.** Write **35** as a product of prime factors. _____
- 18.** Write **87** as a product of prime factors. _____
- 19.** Write **20** as a product of prime factors. _____
- 20.** Write **93** as a product of prime factors. _____
- 21.** Write **25** as a product of prime factors. _____
- 22.** Write **27** as a product of prime factors. _____
- 23.** Write **96** as a product of prime factors. _____
- 24.** Write **78** as a product of prime factors. _____
- 25.** Write **70** as a product of prime factors. _____
- 26.** Write **65** as a product of prime factors. _____
- 27.** Write **6** as a product of prime factors. _____
- 28.** Write **81** as a product of prime factors. _____
- 29.** Write **69** as a product of prime factors. _____
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- 30.** Write **58** as a product of prime factors. _____
- 31.** Write **76** as a product of prime factors. _____
- 32.** Write **40** as a product of prime factors. _____
- 33.** Write **16** as a product of prime factors. _____
- 34.** Write **77** as a product of prime factors. _____
- 35.** Write **88** as a product of prime factors. _____
- 36.** Write **30** as a product of prime factors. _____
- 37.** Write **72** as a product of prime factors. _____
- 38.** Write **48** as a product of prime factors. _____
- 39.** Write **49** as a product of prime factors. _____
- 40.** Write **38** as a product of prime factors. _____
- 41.** Write **66** as a product of prime factors. _____
- 42.** Write **22** as a product of prime factors. _____
- 43.** Write **80** as a product of prime factors. _____
- 44.** Write **75** as a product of prime factors. _____
- 45.** Write **57** as a product of prime factors. _____
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46. Write **55** as a product of prime factors. _____

47. Write **21** as a product of prime factors. _____

48. Write **56** as a product of prime factors. _____

49. Write **14** as a product of prime factors. _____

50. Write **62** as a product of prime factors. _____

Answer Key — Prime Factorization

1. 2^6

2. 2×3^2

3. $3^2 \times 7$

4. 5×19

5. 5×17

6. 2×37

7. 3×5

8. $2 \times 3 \times 7$

9. 2×17

10. 2×3^3

11. $2 \times 3^2 \times 5$

12. $2^2 \times 3$

13. 2×5

14. 2×13

15. $2^2 \times 3 \times 7$

16. $2^2 \times 11$

17. 5×7

18. 3×29

19. $2^2 \times 5$

20. 3×31

21. 5^2

22. 3^3

23. $2^5 \times 3$

24. $2 \times 3 \times 13$

25. $2 \times 5 \times 7$

26. 5×13

27. 2×3

28. 3^4

29. 3×23

30. 2×29

31. $2^2 \times 19$

32. $2^3 \times 5$

33. 2^4

34. 7×11

35. $2^3 \times 11$

36. $2 \times 3 \times 5$

37. $2^3 \times 3^2$

38. $2^4 \times 3$

39. 7^2

40. 2×19

41. $2 \times 3 \times 11$

42. 2×11

43. $2^4 \times 5$

44. 3×5^2

45. 3×19

46. 5×11

47. 3×7

48. $2^3 \times 7$

49. 2×7

50. 2×31
