

Practice 3-3

Prime Numbers and Prime Factorization

1. Make a list of all the prime numbers from 50 through 75. _____

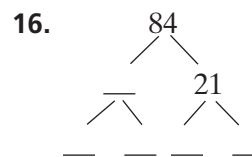
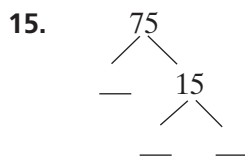
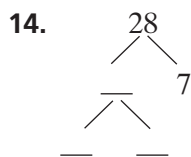
Tell whether each number is prime or composite.

2. 53 _____ 3. 86 _____ 4. 95 _____ 5. 17 _____

6. 24 _____ 7. 27 _____ 8. 31 _____ 9. 51 _____

10. 103 _____ 11. 47 _____ 12. 93 _____ 13. 56 _____

Complete each factor tree.



Find the prime factorization of each number.

17. 58 _____ 18. 72 _____

19. 40 _____ 20. 30 _____

21. 144 _____ 22. 310 _____

Find the number with the given prime factorization.

23. $2 \times 2 \times 5 \times 7 \times 11$ _____ 24. $2 \times 3 \times 5 \times 7 \times 11$ _____

25. $2 \times 2 \times 13 \times 17$ _____ 26. $7 \times 11 \times 13 \times 17$ _____

27. There are 32 students in a class. How many ways can the class be divided into groups with equal numbers of students? What are they?

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