

Factoring Monomials A monomial is a number, a variable, or the product of a number and one or more variables raised to whole-number powers.

| Monomial | Its monomial |
|----------|-------------------------|
| 5 | $5 \cdot 1$ |
| $20x^2$ | $20 \cdot x^2$ |
| $20x^2$ | $2^3 \cdot 5 \cdot x^2$ |

To factor a monomial, write the monomial as a product of prime numbers and variables with exponents of 1.

Example 1 Factoring a Monomial

Factor the monomial $30x^3$.

$$30x^3 = 2 \cdot 3 \cdot 5 \cdot x \cdot x \cdot x$$

$$\text{Write } 30 = 2 \cdot 3 \cdot 5.$$

$$\text{Write } x^3 = x \cdot x \cdot x.$$

Check Your Progress

Factor the monomial.

13. 48

14. $12x^2$

15. $3x^4y^3$

16. $100x^2y^3$

4.1 Exercises

More Practice, p. 131

Guided Practice

Vocabulary Check

- Describe how to write the prime factorization of a number.
- Explain why 50 is a composite number.

Skill Check

Write all the factors of the number.

3. 10

4. 12

5. 20

6. 35

Tell whether the number is prime or composite.

7. 7

8. 11

9. 17

10. 23

Write the prime factorization of the number.

11. 18

12. 14

13. 25

14. 36

15. **Error Analysis** Describe and correct the error in writing the prime factorization of 48.

\times $48 = 3 \cdot 4 \cdot 4$

Practice and Problem Solving

Homework Help

| Example | Exercise |
|---------|---------------|
| 1 | 10–25, 45, 55 |
| 2 | 26–45 |
| 3 | 46–55 |

Lesson Resources

Go to www.ck12.org for more resources.

Write all the factors of the number.

16. 9

17. 12

18. 12

19. 33

20. 30

21. 40

22. 71

23. 144

Tell whether the number is prime or composite.

24. 7

25. 16

26. 21

27. 19

28. 121

29. 51

30. 64

31. 141

Copy and complete the factor tree. Then write the prime factorization of the number.

32. 100



33. 180



Write the prime factorization of the number.

34. 26

35. 34

36. 63

37. 81

38. 120

39. 160

40. 154

41. 175

42. 240

43. 310

44. 237

45. 225

46. **Coin Collecting** The U.S. Mint began issuing state quarters in 1999. There was one state quarter for each of the 50 states. You are collecting the state quarters and want to design a rectangular display with the same number of quarters in each row. How many ways can you arrange your display?

47. **Shading** Give an expression that is a monomial and tell why it is an example of a monomial. Then give an expression that is not a monomial and tell why it is not an example of a monomial.

Factor the monomial.

48. $11x^2$

49. $20x^3$

50. $3x^4$

51. $21x^5$

52. $4xy^2$

53. $30x^2y^3$

54. $2x^2y^3$

55. $40x^3y^4$

56. **Fireflies** There are 60 species of firefly fireflies, also known as lightning bugs, in the United States. A museum is designing a rectangular display of these 60 species with the same number of fireflies in each row. How many displays are possible?

57. **Critical Thinking** Explain why all two-digit whole numbers with 5 as the ones digit are composite.

Use the prime factorization of the number to list all of its factors.

58. 240

59. 135

60. 500

61. 252

List all the factors of the monomial.

62. $6x^2$

63. $52x$

64. $3x^2y$

65. $7xy^2$



Study Strategy

In Examples 16–21, to list all the factors of a number, first list all the prime factors. Then list all products of two prime factors. Then list all products of three prime factors, and so on.

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M Carnoy



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