

8-1 Practice

Monomials and Factoring

Find the factors of each number. Then classify each number as prime or composite.

1. 18 **1, 2, 3, 6, 9, 18;** composite

2. 37 **1, 37;** prime

3. 48 **1, 2, 3, 4, 6, 8, 12, 16, 24, 48;** composite

4. 116 **1, 2, 4, 29, 58, 116;** composite

5. 138 **1, 2, 3, 6, 23, 46, 69, 138;** composite

6. 211 **1, 211;** prime

Find the prime factorization of each integer.

7. 52 **$2^2 \cdot 13$**

8. -96 **$-1 \cdot 2^5 \cdot 3$**

9. 108 **$2^2 \cdot 3^3$**

10. 225 **$3^2 \cdot 5^2$**

11. 286 **$2 \cdot 11 \cdot 13$**

12. -364 **$-1 \cdot 2^7 \cdot 3$**

Factor each monomial completely.

13. $30d^5$
 $2 \cdot 3 \cdot 5 \cdot d \cdot d \cdot d \cdot d \cdot d$

14. $-72mn$
 $-1 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 3 \cdot m \cdot n$

15. $81b^3c^5$
 $3 \cdot 3 \cdot 3 \cdot 3 \cdot b \cdot b \cdot c \cdot c \cdot c$

16. $145abc^3$
 $5 \cdot 29 \cdot a \cdot b \cdot c \cdot c \cdot c$

17. $168pq^2r$
 $2 \cdot 2 \cdot 2 \cdot 3 \cdot 7 \cdot p \cdot q \cdot q \cdot r$

18. $-121x^2yz^2$
 $-1 \cdot 11 \cdot 11 \cdot x \cdot x \cdot y \cdot z \cdot z$

Find the GCF of each set of monomials.

19. 18, 49 **1**

20. 18, 45, 63 **9**

21. 16, 24, 48 **8**

22. 12, 30, 114 **6**

23. 9, 27, 77 **1**

24. 24, 72, 108 **12**

25. $24x^5, 56x^3y^2$ **8xy²**

26. $72r^2s^2, 36rs^3$ **36rs²**

27. $15a^2b, 35ab^2$ **5ab**

28. $28m^3n^2, 45pqr^2$ **1**

29. $40bcy^2, 56x^3y^2, 124x^2y^3$ **4xy²**

30. $88c^3d, 40c^2d^2, 32c^2d$ **8c²d**

GEOMETRY For Exercises 31 and 32, use the following information.

The area of a rectangle is 84 square inches. Its length and width are both whole numbers.

31. What is the minimum perimeter of the rectangle? **38 in.**

32. What is the maximum perimeter of the rectangle? **170 in.**

RENOVATION For Exercises 33 and 34, use the following information.

Ms. Baxter wants to tile a wall to serve as a splashguard above a basin in the basement. She plans to use equal-sized tiles to cover an area that measures 48 inches by 36 inches.

33. What is the maximum-size square tile Ms. Baxter can use and not have to cut any of the tiles? **12-in. square**

34. How many tiles of this size will she need? **12**

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