

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. -384 **$-1 \cdot 2^7 \cdot 3$**

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. $81b^2c^3$
 $3 \cdot 3 \cdot 3 \cdot 3 \cdot b \cdot b \cdot c \cdot c \cdot c$

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. $24fg^5$, $56f^3g$ **$8fg$**

26. $72r^2s^2$, $36rs^3$ **$36rs^2$**

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

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

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

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

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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Zitzewitz,2001-09 *Labnet* Richard Ruopp,Shahaf Gal,Brian Drayton,Meghan Pfister,2012-10-12 Connected by a computer telecommunications network ninth graders from eight high schools scattered thousands of miles across Alaska work together building a robot submarine to gather samples from the floor of Prince William Sound This is high school science as some teachers and educational reformers today envision it centered on student projects that encourage learning by doing supported by modern technology enriched by collaboration among students and teachers both face to face and far apart This example is drawn from LabNet a three year effort funded by the National Science Foundation The project was conducted by Technical Education Research Centers TERC a nonprofit educational organization dedicated to improving mathematics and science education Eventually reaching 562 teachers in 37 states Puerto Rico and American Samoa LabNet had a direct impact on their classroom practice In a follow up evaluation the majority said they had assigned their students more projects and had used LabNet s telecommunications network to exchange project ideas with other teachers This book is the story of LabNet as told by its editors with 14 additional essays on science projects both theoretical and practical by LabNet teachers and TERC staff *Vocational-technical Learning Materials* Bruce Reinhart,1974 **Phy P&P Les Plans Blk Sch 99**
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