

ARE YOU READY?

Vocabulary

Match each term on the left with a definition on the right.

- | | |
|---------------------|--|
| 1. binomial | A. a whole number greater than 1 that has more than two positive factors |
| 2. composite number | B. a polynomial with two terms |
| 3. factor | C. the product of any number and a whole number |
| 4. multiple | D. a number that is written as the product of its prime factors |
| 5. prime number | E. a whole number greater than 1 that has exactly two positive factors, itself and 1 |
| | F. a number that is multiplied by another number to get a product |

Multiples

Write the first four multiples of each number.

6. 3

7. 4

8. 8

9. 15

Factors

Tell whether the second number is a factor of the first number.

10. 20, 5

11. 50, 6

12. 120, 8

13. 245, 7

Prime and Composite Numbers

Tell whether each number is prime or composite. If the number is composite, write it as the product of two numbers.

14. 2

15. 7

16. 10

17. 38

18. 115

19. 147

20. 151

21. 93

Multiply Monomials and Polynomials

Multiply.

22. $2(x + 5)$

23. $3h(h + 1)$

24. $xy(x^2 - xy^3)$

25. $6m(m^2 - 4m - 1)$

Multiply Binomials

Find each product.

26. $(x + 3)(x + 8)$

27. $(b - 7)(b + 1)$

28. $(2p - 5)(p - 1)$

29. $(3n + 4)(2n + 3)$