

**1-1****Practice*****Variables and Expressions***

Write a verbal expression for each algebraic expression.

1.  $23f$

2.  $7^3$

3.  $5m^2 + 2$

4.  $4d^3 - 10$

5.  $x^3 \cdot y^4$

6.  $b^2 - 3c^3$

7.  $\frac{k^5}{6}$

8.  $\frac{4n^2}{7}$

Write an algebraic expression for each verbal expression.

9. the difference of 10 and  $u$ 

10. the sum of 18 and a number

11. the product of 33 and  $j$ 12. 74 increased by 3 times  $y$ 

13. 15 decreased by twice a number

14. 91 more than the square of a number

15. three fourths the square of  $b$ 

16. two fifths the cube of a number

17. **BOOKS** A used bookstore sells paperback fiction books in excellent condition for \$2.50 and in fair condition for \$0.50. Write an expression for the cost of buying  $x$  excellent-condition paperbacks and  $f$  fair-condition paperbacks.

18. **GEOMETRY** The surface area of the side of a right cylinder can be found by multiplying twice the number  $\pi$  by the radius times the height. If a circular cylinder has radius  $r$  and height  $h$ , write an expression that represents the surface area of its side.