

**Directions:** Write each phrase as an algebraic expression.

1. 26 added to  $x$
2. 9 less than  $b$
3. the product of 8 and  $z$
4. the quotient of 200 and  $a$
5.  $k$  divided by 19
6. 28 multiplied by  $p$

**Directions:** Write two phrases for each algebraic expression.

7.  $w - 2$
8.  $15 + c$
9.  $96d$

**Directions:** Evaluate each expression for the given value of the variable.

10.  $5x + 2$ ;  $x = 4$
11.  $63 - 8z$ ;  $z = 7$
12.  $176 \div p$ ;  $p = 2$
13.  $16 + n^2$ ;  $n = 3$
14.  $98 - 5q$ ;  $q = 7$
15.  $(64 \div v) - 11$ ;  $v = 4$

**Directions:** Combine like terms to simplify each expression.

16.  $x + 4 + 3x + 5x + 9 + 32$
17.  $15 + 6 + x + 4x + 3 + 23$
18.  $25 + 5x - 4 + 8x - 17 - 9x$
19.  $3(12x) - 3x + 7x + 10$
20.  $x + 13 + 8 + 3(5x)$

**Directions:** Use the distributive property to simplify each expression.

21.  $7(y + 2)$
22.  $(8 + r)4$
23.  $4(2 + a)$
24.  $8(x + 9) + 7(6 + x)$
25.  $5(y + 4) + 4(4 - y)$
26.  $6(11 + j) + 9(7 + j) - 43$
27.  $2x^2 + 6x + 3(x^2 + 7x) - 8$