

Test Review 1

Simplify each expression.

1) $6b - 7b$

2) $x - 10 + x + 6$

3) $7v - 3 + 9 + 6v$

4) $7 - 4x + x + 2$

5) $2 - 8v - 2v + 9$

6) $-10k - 7 - 4$

7) $-7(k + 10) + 4$

8) $5n - 4(n - 5)$

9) $2 + (-7n - 7) \cdot -9$

10) $-5(-5n + 8) - 2n$

11) $-10(8x - 5) - 3$

12) $8 - 3(6 + 3p)$

13) $-2n - 10(n - 1)$

14) $-7(8 - 5n) + 5$

15) $4(x - 10)$

16) $7r(1 - 6r)$

17) $-4(2x - 8)$

18) $-(9 - 10x)$

Evaluate each expression.

19) $6 \times 6 - (4 + 6 + 1) - 5$

20) $\frac{(12 - 2) \times 2}{1 + 2 \times 2}$

21) $(2 + 4 \times 3) \times 2 - 1 - 5$

22) $3(4 + 2 \times 3) - \frac{10}{2}$

23) $6 - (-5)^2 \times -1$

24) $5 - (5 \times -3 - 6)$

Write each as an algebraic expression.

25) 5 less than u

26) 7 less than z

27) the difference of c and 14

28) the quotient of 24 and v

29) the product of n and 9

30) 9 more than x

Algebraic Properties

_____ Additive Identify

A) $x + 0 = x$

_____ Commutative property of addition

B) if $a = b$ and $b = c$ then $a = c$

_____ Distributive property

C) $(ab)c = a(bc)$

_____ Associative property of multiplication

D) $a = a$

E) $(ab)^n = a^n b^n$

_____ Multiplicative identity

F) $(a)b = a(b) = ab$

G) $(a + b) + c = a + (b + c)$

_____ Commutative property of multiplication

H) $ab = ba$

I) If $a = b$ then $a + x = b + x$

_____ Associative property of addition

J) $1x = x$

K) $a(b + c) = ab + ac$

L) $(a)(b) = ab$

M) $a + b = b + a$

N) If $a = b$ then $ax = bx$