

WS 1-1 - Writing Equations and PEMDAS

Write each as a verbal expression.

1) $\frac{x}{2} > 37$

2) $p - 19 \geq 43$

3) $x \cdot 9$

4) $n - 9 = 40$

5) $n \cdot 8 < 24$

6) $n^3 \geq 17$

7) $2n = 38$

8) $9 + 11$

9) $n - 17 = 29$

10) $n \cdot 6 < 48$

Write each as an algebraic expression.

11) a plus 12

12) v to the 7th is less than 16

13) the quotient of n and 8 is 37

14) a number minus 11 is greater than or equal to 39

15) c increased by 12 is less than 31

16) 27 less than n is greater than 15

17) the quotient of n and 4 is less than 22

18) y decreased by 29 is equal to 6

19) the difference of n and 16 is greater than or equal to 46

20) half of a number is 11

Evaluate each expression.

21) $5 - -12 + (-9)^2$

22) $(-44 + 3 - -5) \div -6$

23) $13 - 12 + 15 - 10$

24) $6^2 - \frac{-24}{-8}$

25) $-14 - (-10 - (-12 + 5))$

26) $\frac{21}{-7} - \frac{-21}{-7}$

27) $-22 \div -11 \cdot (-37 - (-18 + 11)) \div 5$

28) $8 - (2 - 10 - 9 + 9 - -3)$

29) $-\frac{32}{-6 - -7 - 3 - 2} - -1$

30) $\frac{20 - 9 - -13}{13 - (-1 + 10)}$

31) $-10 \cdot 14 - (9 - 1^2 + -12 \cdot 2 - 5)$

32) $(12 \cdot 2 \cdot 2) \div (-6 - (-15 - (-6 - 15)))$

33) $\frac{29 + 16 - 9}{9} + \frac{1 + 10 - 9}{-2}$

34) $\frac{23 \cdot 2 \cdot 2 + -21 - -2 + 7}{10}$

Evaluate each using the values given.

35) $c^2 - c^2 - b$; use $b = -9$, and $c = -5$

36) $a^2 + a - b + b$; use $a = 3$, and $b = -7$

37) $c + b + a + 6 - \frac{a + a}{2}$; use $a = -5$, $b = 7$, and $c = 11$

38) $y - 8 - (z^2 - y + x^2)$; use $x = 6$, $y = -9$, and $z = -3$