

Name: _____

Period: _____ Date: _____

Writing Variable Expressions & Equations

Section I. Write as a variable expression

1. A number plus 7
2. A number decreased by 9
3. Half of a number
4. Three times a number
5. The product of a number and 8
6. The quotient of a number and 3
7. Two times the sum of a number and 6
8. A number cubed
9. 15 less than a number
10. Six times a number squared
11. A number increased by 18
12. Five times a number decreased by 2
13. The quotient of 8 times and number and 3
14. Twelve times a number decreased by 10
15. 2 subtracted from 9 times a number
16. The sum of 8 and a number
17. Six times the difference between a number and 23
18. The quotient of a number plus 4 and 12

Section II. Write as a verbal expression

19. $h + 18$

20. $a - 16$

21. $\frac{c}{5}$

22. x^2

23. $2(j + 3)$

24. $\frac{k}{2}$

Section III. Write as a variable equation and solve

25. A number increased by 8 is 13

26. Five times a number is 20

27. When 4 is subtracted from number, the result is 19.

28. If 6 times a number is decreased by 11, the result is 7.

29. If one half an number is increased by 4, the result is 12.

30. When 2 times a number is increased by 5 the result is equal to 3 times the same number decreased by 4.