

NAME _____
MATH 8

Chapter 3-9

Solve algebraically. Set up an equation and solve. Use "let" statements where necessary.

- 1) One number is eight times another. Their sum is 45. Find the numbers.
- 2) One number is five times another. Their sum is -54 . Find the numbers.
- 3) One number is seven times another. Their sum is 56. Find the numbers.
- 4) One number is twelve times another. Their sum is -39 . Find the numbers.
- 5) One number is four times another. Their product is 196. Find the numbers.
- 6) One number is three times another. Their product is 675. Find the numbers.
- 7) One number is five times another. Their product is 80. Find the numbers.
- 8) One numbers is six times another. Their product is 486. Find the numbers.
- 9) When twelve is subtracted from three times a number, the result is 24. Find the number.
- 10) A number is multiplied by 15. When that product is increased by 13, the result is 73. Find the number.
- 11) If six times a number is increased by 4, the result is -68 . Find the number.

SOLVE EACH.

12) $3n + 2 - 4n = 5$

13) $9n + 7 - 3n = 37$

14) $6n - 2 - 9n = 10$

15) $13 - n = 15$

16) $19 - 2n = 1$

17) $3 - 2n = 17$

18) $8 - 5n = 48$

19) $11 - 3n = 44$

20) $6 - 5n = 36$

21) $36 = 8n + 6n - n$