

Write the Algebraic Expressions**Example:** *four times a number decreased by twelve =  $4n-12$* 

Look at the phrases below and re-write them into an algebraic expression:

- 1.) A number squared is equal to one-thousand nine-hundred thirty-six.
- 2.) A number decreased by twenty is equal to zero.
3. The product of a number and eight squared is equal to eighty-eight.
4. A number cubed is equal to 64.
5. The difference of a number and twelve is thirty-six.
6. Eight more than a number is 22.
7. The product of minus twelve and a number is twenty-six.
8. The sum of minus twelve and a number is equal to twenty-two.
9. A number plus four times that number is equal to 44.
10. A number plus that number squared is equal to fifty-six.
11. Eight more than a number is -18
12. A number increased by 5 is equal to one hundred and four.



Name \_\_\_\_\_

Write the Algebraic Expressions

**Example:** *four times a number decreased by twelve* =  $4n-12$

Answers:

1.) A number squared is equal to one-thousand nine-hundred thirty-six.

$$n^2 = 1936$$

2.) A number decreased by twenty is equal to zero.

$$n - 20 = 0$$

3. The product of a number and eight squared is equal to eighty-eight.

$$n \cdot 8^2 = 88$$

4. A number cubed is equal to 64.

$$n^3 = 64$$

5. The difference of a number and twelve is thirty-six.

$$n - 12 = 36$$

6. Eight more than a number is 22.

$$8 + n = 22$$

7. The product of minus twelve and a number is twenty-six.

$$-12 \times n = 26$$

8. The sum of minus twelve and a number is equal to twenty-two.

$$-12 + n = 22$$

9. A number plus four times that number is equal to 44.

$$n + 4n = 44$$

10. A number plus that number squared is equal to fifty-six.

$$n + n^2 = 56$$

11. Eight more than a number is -18

$$8 + n = -18$$

12. A number increased by 5 is equal to one hundred and four.

$$n + 5 = 104$$