

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.) The product of x and seven equals twenty-eight.
- 2.) The difference of a number and 13 equals forty-eight.
- 3.) The number increased by 7 is equal to six.
- 4.) Twelve more than a number is eleven.
- 5.) The second power of eight.
- 6.) The difference of a number and fifteen is thirty-eight.
- 7.) Fifteen less than a number.
- 8.) The product of the number and nine equals five.
- 9.) The difference of a number and four is eighteen.
- 10.) Thirteen less than a number.
- 11.) The fifth power of eight.
- 12.) Add five to a number, then divide it by 3.
- 13.) Multiply a number by four and add 3.



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

Answers:

1.) The product of x and seven equals twenty-eight.

$$x \cdot 7 = 28$$

2.) The difference of a number and 13 equals forty-eight.

$$n - 13 = 48$$

3.) The number increased by 7 is equal to six.

$$n + 7 = 6$$

4.) Twelve more than a number is eleven.

$$n + 12 = 11$$

5.) The second power of eight.

$$8^2$$

6.) The difference of a number and fifteen is thirty-eight.

$$n - 15 = 38$$

7.) Fifteen less than a number.

$$n - 15$$

8.) The product of the number and nine equals five.

$$n \cdot 9 = 5$$

9.) The difference of a number and four is eighteen.

$$n - 4 = 18$$

10.) Thirteen less than a number.

$$n - 13$$

11.) The fifth power of eight.

$$8^5$$

12.) Add five to a number, then divide it by 3.

$$\frac{n+5}{3}$$

13.) Multiply a number by four and add 3.

$$4n + 3$$