



Name _____

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.) Multiply a number by five and square the answer.
- 2.) Add three to a number , then multiply your number by 4.
- 3.) Eleven times the sum of a number and five times the number.
- 4.) Six times the sum of twice a number and sixteen.
- 5.) Twelve times a number decreased by three.
- 6.) A number increased by seven is minus twenty-three.
- 7.) Six more than a number is negative thirty-one.
- 8.) The product of six and a number increased by six.
- 9.) One half times a number increased by six.
- 10.) Three times the difference between x and five.
- 11.) Two times the sum of a number and five is twenty-six.
- 12.) Eight times a number increased by nine.



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

Answers:

- 1.) Multiply a number by five and square the answer. $(5n)^2$
- 2.) Add three to a number, then multiply your number by 4. $4(3+n)$
- 3.) Eleven times the sum of a number and five times the number. $11(n+5n)$
- 4.) Six times the sum of twice a number and sixteen. $6(2n+16)$
- 5.) Twelve times a number decreased by three. $12n-3$
- 6.) A number increased by seven is minus twenty-three. $n+7=-23$
- 7.) Six more than a number is negative thirty-one. $6+n=-31$
- 8.) The product of six and a number increased by six. $6(n+6)$
- 9.) One half times a number increased by six. $\frac{1}{2}n+6$
- 10.) Three times the difference between x and five. $3(x-5)$
- 11.) Two times the sum of a number and five is twenty-six. $2(n+5)=26$
- 12.) Eight times a number increased by nine. $8n-9$