



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.) A number times eight is equal to forty-five.

2.) The difference of a number and twenty-four is equal to forty-six

3.) A number squared is 34

4.) The sum of a number plus 12.

5.) Twice times a number.

6.) A number times five is equal to one-hundred-twenty.

7.) The quotient of a number and five is thirty-three

8.) A number increased by six equals twenty.

9.) Nine squared plus a number equals one-hundred-ten.

10.) A number plus twelve equals forty.

11.) Two times a number is equal to forty-seven.

12.) The difference between a number and nineteen is equal to forty-eight.



## Write the Algebraic Expressions

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

Answers:

1.) A number times eight is equal to forty-five.  $n \cdot 8 = 45$

2.) The difference of a number and twenty-four is equal to forty-six  $n - 24 = 46$

3.) A number squared is 34  $n^2 = 34$

4.) The sum of a number plus 12.  $n + 12$

5.) Twice times a number.  $2n$

6.) A number times five is equal to one-hundred-twenty.  $5n = 120$

7.) The quotient of a number and five is thirty-three  $\frac{n}{5} = 33$

8.) A number increased by six equals twenty.  $n + 6 = 20$

9.) Nine squared plus a number equals one-hundred-ten.  $9^2 + n = 110$

10.) A number plus twelve equals forty.  $n + 12 = 40$

11.) Two times a number is equal to forty-seven.  $2n = 47$

12.) The difference between a number and nineteen is equal to forty-eight.  $n - 19 = 48$