Algebra
3x-12

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-hundred-forty-four

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

3. The product of a number and eleven is equal to forty-five.

4. A number cubed is equal to twenty-two.

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

6. Twelve more than a number is 11.

7. The product of minus four and a number is thirty-six.

8. The sum of minus eight and a number is equal to twenty.

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

10. A number plus that number squared is equal to 110.

11. Six more than a number is -22

12. A number increased by 9 is equal to forty-four.

Algebra

3x-12

Write the Algebraic Expressions

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

Answers:

1.) A number squared is equal to one-hundred-forty-four

$n^2 = 144$

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

$n - 14 = 20$

3. The product of a number and eleven is equal to forty-five.

$n \cdot 11 = 45$

4. A number cubed is equal to twenty-two.

$y^3 = 22$

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

$n - 15 = 38$

6. Twelve more than a number is 11.

$12 + n = 11$

7. The product of minus four and a number is thirty-six.

$-4 \, x \, n = 36$

8. The sum of minus eight and a number is equal to twenty.

$-8 + n = 20$

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

$n + 3n = 44$

10. A number plus that number squared is equal to 110.

$n + n^2 = 110$

11. Six more than a number is -22

$6 + n = -22$

12. A number increased by 9 is equal to forty-four.

$n + 9 = 44$