

## Translating Algebraic Expressions

You will need to \_\_\_\_\_ between algebraic expressions and \_\_\_\_\_ to be successful in math.

To \_\_\_\_\_ words into algebraic expressions, look for words that indicate the \_\_\_\_\_ that is taking \_\_\_\_\_.

**Translations: Fill in the appropriate words for each math operation.**

☞ Half	☞ Sum	☞ Increased	☞ Double
☞ Plus	☞ Decreased	☞ Cubed	☞ Add
☞ Triple	☞ Twice	☞ Minus	☞ Times
☞ More Than	☞ Less Than	☞ Quotient	☞ Together
☞ Difference	☞ Raised to a power	☞ Product	☞ Square
☞ To the power of	☞ Take away	☞ Divide by	

Addition- (6 words)

Subtraction- (5 words)

Division- (3 words)

Multiplication- (5 words)

Exponents- (4 words)

**\*\*Reversing the Order: FITT**

You \_\_\_\_\_ the \_\_\_\_\_ and the \_\_\_\_\_ when you see:

**F** - \_\_\_\_\_

**I** - \_\_\_\_\_

**T** - \_\_\_\_\_ **or** \_\_\_\_\_

**T** - \_\_\_\_\_

**Translate each verbal expression into an algebraic expression:**

1.) The sum of a number and 10




2.) The product of 9 and x squared

3.) 9 less than g to the fourth power

4.) 8 increased by 4 times a number

**WORD WALL:**

<p><b>Addition (+):</b></p> <ul style="list-style-type: none"> <li>• More</li> <li>• Sum → (and)</li> <li>• Increase</li> <li>• Plus</li> <li>• Total → (and)</li> <li>• Added to</li> <li>• Combined</li> <li>• Include</li> </ul>	<p><b>Subtraction (-):</b></p> <ul style="list-style-type: none"> <li>• Less</li> <li>• Difference → (and)</li> <li>• Decrease</li> <li>• Minus</li> <li>• Diminished</li> <li>• Exclude</li> <li>• Remove</li> <li>• Take away</li> <li>• Reduced</li> </ul>	<p><b>Multiplication (×):</b></p> <ul style="list-style-type: none"> <li>• Times</li> <li>• Product → (and)</li> <li>• Twice (*2)</li> <li>• Doubled (*2)</li> <li>• Triple (*3)</li> <li>• Of</li> <li>• Multiple</li> </ul>	<p><b>Division (÷):</b></p> <ul style="list-style-type: none"> <li>• Divided By</li> <li>• Quotient → (and)</li> <li>• Separated</li> <li>• Split</li> <li>• Cut</li> </ul>
---	---	---	---

**Tricky:**   

Convert the following phrases and sentences to algebraic expressions:

- |  |  |
|--|--|
| 1. "The sum of three and an unknown number."                         | 2. "Three less than an unknown number."                    |
| 3. "A number doubled reduced by five."                               | 4. "The number of five increased by three times a number." |
| 5. "The product of three and an unknown number diminished by eight." | 6. "Four subtracted from a number."                        |
| 7. "The quotient of a number tripled and six."                       | 8. "Three times the sum of a number and four."             |
| 9. "Ten subtracted from twice a number."                             | 10. "Twice the difference of 7 and a number."              |