

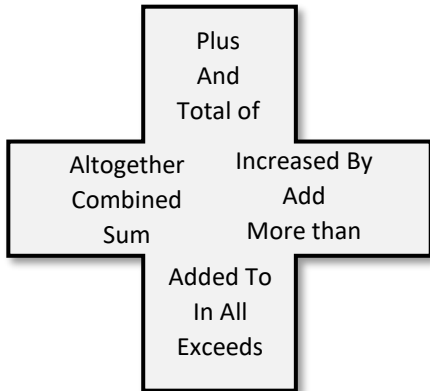
Name:

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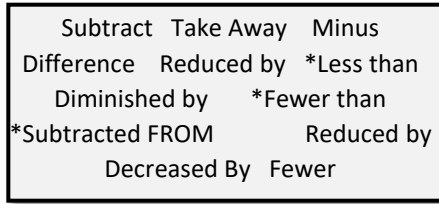
Period:

Common Translation Phrases for Algebraic Expressions and Equations

ADDITION

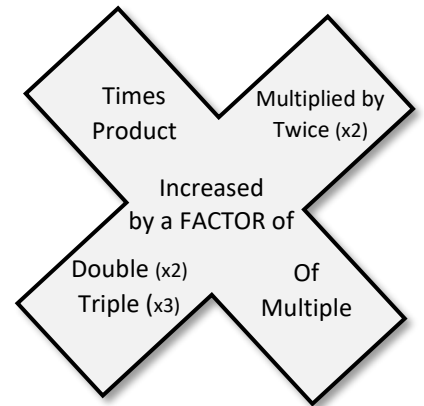


SUBTRACTION

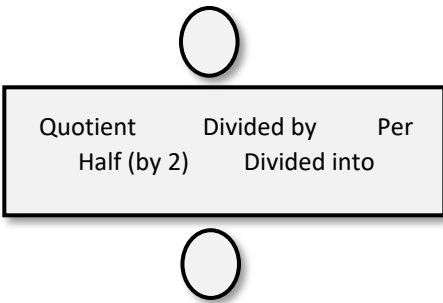


*Have to switch the order

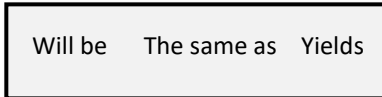
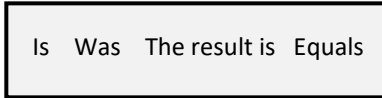
MULTIPLICATION



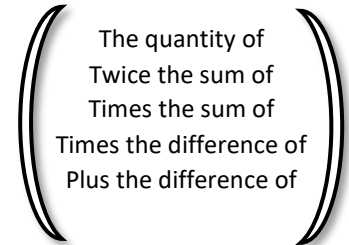
DIVISION



EQUALS



PARENTHESIS



Translate the following into expressions (no equal sign):

- | | | |
|------------------------------------|--|---|
| 1. w more than 3 _____ | 2. 9 decreased by x _____ | 3. 25 less than x _____ |
| 4. w less than 7 _____ | 5. m increased by 14 _____ | 6. Twice x _____ |
| 7. 5 subtracted from w _____ | 8. The sum of t and u, divided by 6 _____ | 9. The product of 5r and s _____ |
| 10. Twice the sum of x and y _____ | 11. Sixteen less than two times a number _____ | 12. A number decreased by 7 _____ |
| 13. One-fifth of a number _____ | 14. Three more than five times a number _____ | 15. Three subtracted from twice a # _____ |

Complete each table using substitution.

1.

n	3n
5	
10	
15	

2.

n	n + 7
3	
5	
7	

3.

n	n - 70
80	
100	
120	

4.

n	n ÷ 8
0	
1	
8	
16	

5.

n	4 less than n
20	
18	
16	
14	

6.

n	2 more than n
20	
18	
16	
14	

Translating words into EQUATIONS:

1. START WITH THE **EQUAL SIGN**
2. Replace phrases like “what number”, “a number”, “some number” with the variable, x.
3. Translate the rest of the problem using the clue words from the other side.

Example 1: Ten times what number equals 70.

Ten times what number equals 70.
↓ ↓ ↓ ↓ ↓
10 . x = 70

Example 2: 19 less than twice a number is -9.

19 less than * twice a number is -9.
2x - 19 = -9

*switch order

Translate the following into equations.

1. The product of 5 and a number is 45.
2. One-ninth of a number is 54.
3. 89 less than a number equals 8.
4. Three less than six times what number is 15.
5. The sum of a number and eleven times the same number is 48.
6. A number multiplied by five plus six is equal to 50.
7. A number divided by five less seven is equal to 37.
8. A number plus 17 plus three times the number equals 15.
9. If you subtract 8 from a specific number, you get 12.
10. If you add 13 to seven times a number, your answer is 127 more than the number itself.
11. Alonzo bought 5 boxes of trading cards. There were the same number in each box. He bought a total of 55 trading cards.
12. Juanita can jog 12 miles today, which is twice as far as she could a year ago. A year ago, she could jog x miles. How far could she jog a year ago?
13. 8 more than 4 times a number is 48.
14. Nine times a number, less 9, is 36.
15. The sum of 12 and the product of 6 and a number is 60.
16. 15 less than the product of 6 and a number is 15.
17. Three times a certain number is the same as that number plus 15.
18. Twice the sum of a certain number and 36 is 90.
19. Seventeen more than twice a number is 48.
20. Take a number, double it, add 7 and you get 23.
21. If you multiply a number by 13 you get 117.
22. If you add six to five times a number, your answer will be 45 more than twice the number.
23. Mary scored x points. Emily scored one less than twice as many. The girls scored a total of 35 points.
24. The perimeter of rectangle (P) is equal to twice its width (W) added to twice its length (L).