1. What is the GCF for 4 and 12?

    1, 2, 4
    1, 2, 3, 4, 6, 12

2. What is the GCF for 15 and 20?

    1, 3, 5, 15
    1, 2, 4, 5, 10, 20

3. What is the GCF for 24 and 30?

    2, 3, 4, 6, 8, 12, 24
    2, 3, 5, 6, 10, 15, 30

4. What is the LCM for 2 and 15?

    15, 30, 45
    2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22
    24, 26, 28, 30

5. What is the LCM for 6 and 8?

    6, 12, 18, 24

TRANSLATING

ADDITION ➕

- Sum
- more than
- total
- Plus
- all together

increased by

SUBTRACTION ➖

- difference
- withdrawl
- minus
- take away
- * less than

MULTIPLICATION ●

- of
- Product
- times
- double
- twice

DIVISION ╱

- quotient
- divide
- separate
- half of
-

(Parentheses Words
: _____
: _____)

Turn Around Words
: _____
: _____

(Parentheses Words
  - *times the sum* **)**
  - *times the*
    difference

Turn Around Words
  - *less than*
  - *Subtracted from*

$14 - 3$

$3 - 14$

Examples!

1. "The product of a number and 3" $3x$	**2.** "The difference of a number and 10" $x - 10$
3. "The quotient of a number and -5" $\dfrac{x}{-5}$	**4.** "Four subtracted from a number" $x - 4$

5. "The sum of twice a number and 7" $$2X + 7$$	**6.** "The product of a number and 10, increased by 1" $$10X + 1$$
7. "Four <u>less than</u> a number squared" $$X^2 - 4$$	**8.** "Twice a number divided by 5" $$\frac{2X}{5}$$
9. "The sum of twice a number and 10 is 36" $$2x + 10 = 36$$	**10.** "Three times the difference of a number and 7 is 18" $$3(X - 7) = 18$$
11. "Four times a number divided by 8 is 3" $$\frac{4X}{8} = 3$$	**12.** "Five times the <u>sum of a number and 6</u> is 48" $$5(X + 6) = 48$$
13. "One half of a number is 8 less than the number itself" $$\frac{1}{2}X = X - 8$$	**14.** "The product of a number and 3 is the same as the sum of that number and six" $$3X = X + 6$$
15. "Fifteen decreased by the quotient of a number and 3 is 20" $$15 - \frac{X}{3} = 20$$	**16.** "Four less than the product of a number and 7 is eight more than that number" $$7X - 4 = 8 + X$$

Inequalities

LESS THAN	LESS THAN OR EQUAL TO	GREATER THAN	GREATER THAN OR EQUAL TO

1. "A number is less than -10"	**2.** "A number is less than or equal to 8"
3. "A number is greater than or equal to -4"	**4.** "A number is at most 45"
5. "A speed limit of 55 mph"	**6.** "A number is at least 16"
7. "A number is no less than 10"	**8.** "A number is no more than 26"
9. "A maximum number of 25"	**10.** "A minimum number of 5"