

## **Your Mathematics Cheat Sheet**

Mathematics cheat sheet will help you and to be more informed about the formulas. Knowing it will be your guide.

**mathematics Cheat Sheet Template Algebra for you**

## Mathematics Cheat Sheet

### Converting Metric to English Units

1 meter equals to 3.28 feet  
1 kilogram equals to 2.20 pounds  
1 kilometer equals to 0.62 miles  
1 liter equals to 0.26 gallons  
10°C equals to 50°F  
30°C equals to 86°F  
20°C equals to 68°F  
0°C equals to 32°F

### 4 Math Operations

- Addition
- Subtraction
- Division
- Multiplication

**Note:** Certain operation posses properties that will enable you in manipulating numbers in such problem. You also need to know about essential properties such as associative property, commutative property as well as distributive property.

**Inverse operations:** It is pairs of the operations that can work backward in cancelling every other out. 2 pairs of big 4 operations such as subtraction, addition, division are multiplication are inverses of each other.

**Commutative Property of Addition:** A plus B equals B plus A

**Commutative Property of Multiplication:** A multiplied by B equals to B multiplied by A

**Associative Property of Addition:** (A plus B) plus C equals to A plus (B plus C)

**Associative Property of Multiplication:** (A multiplied by B) multiplied by C equals to A multiplied by (B multiplied by C)

**Distributive Property:** A multiplied by (B plus C) equals to AB plus AC

**Commutative property:** The operation will be commutative if you apply it to pair number either backwards or forwards and you expect same result.

**Associative property:** It is associative if you apply it with the use of parentheses in different group of numbers and you get the same result.

**Distributive property:** This operation connects operations of addition and multiplication. When the multiplication is being described as distributive over the addition, you can split the multiplication problem to 2 smaller problem and add your results.

### Algebra:

Motion problems: D equals to RT

That is the distance equals to rate times time

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- $(x+y)^2 = x^2 + y^2 + 2xy$
- $(x-y)^2 = x^2 + y^2 - 2xy$
- $(x+y)^3 = x^3 + y^3 + 3xy(x + y)$
- $(x-y)^3 = x^3 - y^3 - 3xy(x - y)$
- $x^2 - y^2 = (x + y)(x - y)$
- $x^{-2} = 1/x^2$ ,  $2^{-4} = 1/16 = 1/2^4$
- $(xa)(xb) = xa+xb$
- $xa/xb = xa-b = 1/xb-a$
- $x^0=1$
- $xaya = (xy)a$ ,  $2232 = 62$

## My Cheat Sheet

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**The quadratic equation**, for any given  $x$  if  $ax^2 + bx + c = 0$  then  $x$  has the 2 solutions  
 $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ ,  $x = \frac{-b - \sqrt{b^2 - 4ac}}{2a}$

$x^a y^b$  is not equal to  $(xy)^{a+b}$

**Functions:**  $f(x) = 9x + 5$ ; where  $f$  is the function of  $x$  because it will change  $X$ , depends on the  $X$ .

Value of the  $f$  can be obtained by the substituting  $x$  in ' $9x + 5$ ', so  $f(2) = 23$  when  $x = 2$ . The domain of any of the function is set of permissible inputs values of variable. For example:

$-3x + 5$  for the above inequality, you need solutions for  $x$ . Above equation is the equivalent to  $-3x - 6$

hence  $x$  can be  $-5, -3, 1, 2, \dots$  (infinite values)

## Cheat Sheet Template Interest you can Rely on

- **Simple Interest:**

, where the  $P$  will be the principal,  $r$  will be the rate, and  $t$  will be the time.

- **Compound Interest:**

, where the  $n$  is the number of times compounded for each year

- **Work rates:**

, where the T is time of completion of the task when 2 workers are combining effort.

- **Sets:**

- Where can I read about APA?

- [APA format cheat sheet](#) is exactly what you need!

- **Distance, Rate, and Time:**

- **Circles:**



- **Squares:**

, where  $s$  = side

- **Rectangles:**

, where  $l$  = length and  $w$  = width

- **Trapezoids:**



- **Polygons:**

, where the  $n = \#$  of sides

- **Prime Numbers and the Integers:**

1 is not the prime. 2 is the smallest number for prime and the only even prime.

An integer is any counting number which include the negative numbers (e.g. -3, -1, 2, 7...but not 2.5).

- **Fast Fractions:**

- **Divisibility:**

sum of the digits will be divisible by three

last 2 digits of the number will be divisible by four

last digit is either a five or zero

even number and the sum of the digits will be divisible by three

if last 3 digits will be divisible by eight

sum of the digits will be divisible by nine

- **Combination and the permutations:**

$n$  will be the total number,  $r$  will be the number you choose

- **Probability:**

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