

# Math Reference Sheet

## Metric Conversions (King Henry Died Unusually Drinking Chocolate Milk)

| Kilo-      | Hecto-    | Deca-    | UNIT                             | Deci-     | Centi-     | Milli-      |
|------------|-----------|----------|----------------------------------|-----------|------------|-------------|
| 1000 units | 100 units | 10 units | Base Unit<br>Meters, Jars, Years | 0.1 units | 0.01 units | 0.001 units |

Divide numbers by 10 if you are converting to a bigger unit - or move decimal to the left

Multiply numbers by 10 if you are converting to a smaller unit - or move decimal to the right

### Area Formulas

|               |                               |
|---------------|-------------------------------|
| Triangle      | $A = \frac{1}{2}bh$           |
| Rectangle     | $A = lw$                      |
| Trapezoid     | $A = \frac{1}{2}h(b_1 + b_2)$ |
| Parallelogram | $A = bh$                      |
| Circle        | $A = \pi r^2$                 |

### Angle Facts

- Right Angle:  $90^\circ$
- Acute: less than  $90^\circ$
- Obtuse: larger than  $90^\circ$
- Complementary: Two angles with a sum of  $90^\circ$
- Supplementary: Two angles with a sum of  $180^\circ$

### Pythagorean Theorem



$$c^2 = a^2 + b^2$$

c is always the hypotenuse

### Integer Rules

when adding and subtracting integers with like signs add and keep the sign.

$$[-4 + (-3) = -7] \quad [5 + 4 = 9] \quad [5 - 3 = 2]$$

when adding and subtracting integers with unlike signs subtract and keep the sign of the higher number.

$$[-7 + 3 = -4] \quad [4 + (-2) = 2]$$

when subtracting a negative, it turns into a positive.

$$[8 - (-2) = \text{becomes } 8 + 2 = 10]$$

when multiplying and dividing with same signs the product is always positive.

$$[4 \times 5 = 20] \quad [-4 \times -4 = 16] \quad [-4 \div -4 = 1]$$

if the signs are different, the product is always negative.

$$[-4 \times 5 = -20] \quad [4 \div 2 = 2] \quad [4 \div -2 = -2]$$

### Slope-Intercept Form

$$y = mx + b \quad \text{or} \quad y = b + mx$$

m = slope and b = y-intercept

$$\text{slope} = \frac{y_2 - y_1}{x_2 - x_1} \quad \text{where } x_1 \neq x_2$$

$$\text{y-intercept} = \left( \frac{a_1x + b_1}{a_1}, \frac{a_2x + b_2}{a_2} \right)$$

$$\text{distance} = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

Sum of degree measures of all the interior angles of a polygon

$$180(n - 2)$$

Degree measure of one interior angle of a regular polygon

$$\frac{180(n - 2)}{n}$$

n is the number of sides of the polygon

### Perfect Squares

|            |              |
|------------|--------------|
| $1^2 = 1$  | $6^2 = 36$   |
| $2^2 = 4$  | $7^2 = 49$   |
| $3^2 = 9$  | $8^2 = 64$   |
| $4^2 = 16$ | $9^2 = 81$   |
| $5^2 = 25$ | $10^2 = 100$ |

|                          |                                                |
|--------------------------|------------------------------------------------|
| Multiplication Rule      | $a^m \cdot a^n = a^{m+n}$                      |
| Division Rule            | $\frac{a^m}{a^n} = a^{m-n}$                    |
| Power of a Power Rule    | $(a^m)^n = a^{mn}$                             |
| Power of a Product Rule  | $(ab)^n = a^n b^n$                             |
| Power of a Fraction Rule | $\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}$ |
| Zero Exponent            | $a^0 = 1$                                      |
| Negative Exponent        | $a^{-n} = \frac{1}{a^n}$                       |
| Fractional Exponent      | $a^{\frac{1}{n}} = \sqrt[n]{a}$                |

## Percent - Decimal - Fraction Conversions

Percent to decimal - Pass over the percent symbol and divide by 100.

Percent to fraction - Pass over percent symbol, use as the numerator over 100, reduce fraction

Decimal to percent - Multiply by 100, add percent symbol

Decimal to fraction - Pass over decimal point and make that the numerator over 100, reduce fraction

Fraction to decimal - Divide numerator by denominator

Fraction to percent - Divide numerator by denominator, multiply by 100, add percent symbol

# Middle School Math Reference Sheet

**Patrick Vollmar**



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