

# 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, Grams, Seconds | 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.

$$[4 \times 5 = 20] \quad [-4 \times -4 = 16] \quad [-8 \div -4 = 2]$$

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

$$[-4 \times 5 = -20] \quad [12 \div -3 = -4]$$

### Slope-Intercept Form

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

m = slope and b = y-intercept

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

$$\text{y-intercept} = \left( \frac{y_1 - y_2}{x_2 - x_1} \right)$$

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

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— Remove the percent symbol and divide by 100.

Percent to fraction— Remove percent symbol, use as the numerator over 100, reduce fraction

Decimal to percent— Multiply by 100, add percent symbol

Decimal to fraction— Remove 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 Study Guides

**R Bogdan**



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