

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 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°
- Acute: less than 90°
- Obtuse: larger than 90°
- Complementary: Two angles with a sum of 90°
- Supplementary: Two angles with a sum of 180°

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.

$$[-4 + (-3) = -7] \quad [5 + 4 = 9] \quad [5 - (-3) = 8]$$

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.

$$[-4 \times 5 = -20] \quad [-8 \times -4 = 32] \quad [-8 \div -4 = 2]$$

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

$$[-8 \times 5 = -40] \quad [12 \div (-3) = -4]$$

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 - 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 Study Guides

Sharon Wynne



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