

# MATH CHEAT SHEET

6TH GRADE

11/20/2017

## INTEGER RULES

### ADDING

Same signs: ADD

and keep the sign

Different signs: SUBTRACT

and keep the sign of the larger (absolute value)

$$3 + 4 = 7$$

$$-3 + -4 = -7$$

$$-3 + 4 = 1$$

$$3 + -4 = -1$$

## SUBTRACTING

KEEP, CHANGE, CHANGE

When taking the addition

minus

change the sign

$$3 - 1 = 2$$

$$3 - 1 = 4$$

$$3 - 4 = -1$$

## MULTIPLYING & DIVIDING

Same Sign?

& POSITIVE?

Different Sign?

& NEGATIVE?

## ORDER OF OPERATIONS

PEMDAS

$$3 \times 5 = 15$$

$$15 - 5 = 10$$

$$10 + 2 = 12$$

$$12 \div 3 = 4$$

$$4 \times 2 = 8$$

$$8 + 1 = 9$$

## EXPONENTS

2<sup>3</sup>

$$2 \times 2 \times 2 = 8$$

## MULTIPLE REPRESENTATIONS

### MULTIPLICATIVE

The slope is represented by the line on the graph.

Each unit you move right, you move 2 units up.

Equation:  $y = 2x$



### ADDITIVE

The intercept is represented by the line on the graph.

Each unit you move right, you move 1 unit up.

Equation:  $y = x + 1$



## PERCENT PROPORTIONS

$$\frac{\text{IS}}{\text{OF / WHOLE}} = \frac{\%}{100}$$

$$\text{PERCENT} = \text{PER } 100$$

## METRIC CONVERSIONS

UNIT	METRIC	CONVERSION
1 meter	1000 millimeters	
1 liter	1000 milliliters	
1 kilogram	1000 grams	

## PROPERTIES

PROPERTY	DESCRIPTION	EXAMPLE
ASSOCIATIVE	Adding or multiplying three numbers in any order gives the same result.	$(3 + 4) + 5 = 3 + (4 + 5) = 12$
COMMUTATIVE	Adding or multiplying two numbers in any order gives the same result.	$3 + 4 = 4 + 3 = 7$
DISTRIBUTIVE	The distributive property states that multiplying a sum by a number is the same as multiplying each addend by the number and then adding the products.	$3(4 + 5) = 3 \times 4 + 3 \times 5 = 12 + 15 = 27$

## INEQUALITIES

**V**  $x > 2$  **A**  $x < 2$  **W**  $x \geq 2$  **A**  $x \leq 2$

**IS GREATER THAN** **IS LESS THAN** **IS GREATER THAN OR EQUAL TO** **IS LESS THAN OR EQUAL TO**

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## EQUATIONS: ONE-STEP

**ADDITION**  $15 + x = 24$   $x = 24 - 15$   $x = 9$

**SUBTRACTION**  $15 - x = 9$   $-x = 9 - 15$   $-x = -6$   $x = 6$

**MULTIPLICATION**  $3x = 18$   $x = 18 \div 3$   $x = 6$

**DIVISION**  $\frac{x}{3} = 6$   $x = 6 \times 3$   $x = 18$

## PROPORTIONS

$\frac{1}{2} = \frac{3}{6}$   $\frac{2}{4} = \frac{3}{6}$   $\frac{3}{6} = \frac{3}{6}$

$\frac{1}{2} = \frac{3}{6}$   $\frac{2}{4} = \frac{3}{6}$   $\frac{3}{6} = \frac{3}{6}$

## AREA: 2D SHAPES

**Rectangle**  $A = \text{length} \times \text{width}$

**Triangle**  $A = \frac{1}{2} \times \text{base} \times \text{height}$

**Parallelogram**  $A = \text{base} \times \text{height}$

## VOLUME

**Rectangular Prism**  $V = \text{length} \times \text{width} \times \text{height}$

**Cylinder**  $V = \pi r^2 h$

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**M Mosston**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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