

Standards-Based Education Priority Standards

MYP Math 6

Positive and Magative Numbers

Ratio Reason	ing
C1 - 6.RP.1	Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.
C2 - 6.RP.2	Understand the concept of a unit rate a/b associated with a ratio a:b with b ≠ 0, and use rate language in the context of a ratio relationship.
D3 - 6.RP.3	Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.
Operations w	ith Decimals and Fractions
C4 - 6.NS.1	Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.
AE GNG 2	Eluantly divide multi-digit numbers using the standard algorithm

Fluently divide multi-digit numbers using the standard algorithm. **A5 - 6.NS.2** A6 - 6.NS.3 Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation. A7 - 6.NS.4 Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express a sum of two whole numbers 1-100 with a common factor as a multiple of a sum of two whole numbers with no common factor. Find the volume of a right rectangular prism with fractional edge lengths by packing it with D8 - 6.G.2 unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas V = I w h and V = b h to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.

Positive and Negative Numbers		
B9 - 6.NS.5	Understand that positive and negative numbers are used together to describe quantities	
	having opposite directions or; use positive and negative numbers to represent quantities in	
	real-world contexts, explaining the meaning of 0 in each situation.	
A10 - 6.NS.6	Understand a rational number as a point on the number line. Extend number line diagrams	
	and coordinate axes familiar from previous grades to represent points on the line and in the	
	plane with negative number coordinates	

A11 - 6.NS.7	Understand ordering and absolute value of rational numbers.
D12 - 6.NS.8	Solve real-world and mathematical problems by graphing points in all four quadrants of the
	coordinate plane. Include use of coordinates and absolute value to find distances between
	points with the same first coordinate or the same second coordinate.
D13 - 6.G.3	Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to
	find the length of a side joining points with the same first coordinate or the same second
	coordinate. Apply these techniques in the context of solving real-world and mathematical
	problems.
Area and Algel	braic Expressions
C14 - 6.EE.1	Write and evaluate numerical expressions involving whole-number exponents.
A15 - 6.EE.2	Write, read, and evaluate expressions in which letters stand for numbers.
B16 - 6.EE.3	Apply the properties of operations to generate equivalent expressions. For example, apply
	the distributive property to the expression 3 $(2 + x)$ to produce the equivalent expression 6 +
	3x; apply the distributive property to the expression 24x + 18y to produce the equivalent
	expression 6 ($4x + 3y$); apply properties of operations to $y + y + y$ to produce the equivalent
	expression 3y.
	Find the area of right triangles, other triangles, special quadrilaterals, and polygons by
D17 - 6.G.1	composing into rectangles or decomposing into triangles and other shapes; apply these
	techniques in the context of solving real-world and mathematical problems.
	Represent three-dimensional figures using nets made up of rectangles and triangles, and use
D18 - 6.G.4	the nets to find the surface area of these figures. Apply these techniques in the context of
D10 - 0.G. T	

Algebraic Reasoning	
A19 - 6.EE.4	Identify when two expressions are equivalent (i.e., when the two expressions name the
	same number regardless of which value is substituted into them).
B20 - 6.EE.5	Understand solving an equation or inequality as a process of answering a question: which
	values from a specified set, if any, make the equation or inequality true? Use substitution to
	determine whether a given number in a specified set makes an equation or inequality true.
D21 - 6.EE.6	Use variables to represent numbers and write expressions when solving a real-world or
	mathematical problem; understand that a variable can represent an unknown number, or,
	depending on the purpose at hand, any number in a specified set.
D22 - 6.EE.7	Solve real-world and mathematical problems by writing and solving equations of the form x
	+ p = q and px = q for cases in which p, q and x are all nonnegative rational numbers.
B23 - 6.EE.8	Write an inequality of the form $x > c$ or $x < c$ to represent a constraint or condition in a real-
	world or mathematical problem. Recognize that inequalities of the form $x > c$ or $x < c$ have
	infinitely many solutions; represent solutions of such inequalities on number line diagrams.
D24 - 6.EE.9	Use variables to represent two quantities in a real-world problem that change in relationship
	to one another; write an equation to express one quantity, thought of as the dependent
	variable, in terms of the other quantity, thought of as the independent variable. Analyze the
	relationship between the dependent and independent variables using graphs and tables,
	and relate these to the equation.
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Statistics and	Probability
B25 - 6.SP.1	Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answers.
B26 - 6.SP.2	Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.
B27 - 6.SP.3	Recognize that a measure of center for a numerical data set summarizes all of its values with a single number, while a measure of variation describes how its values vary with a single number.
C28 - 6.SP.4	Display numerical data in plots on a number line, including dot plots, histograms, and box plots.
C29 - 6.SP.5	Summarize numerical data sets in relation to their context