MATH

Year 6

(140 hrs, 4 hrs per week, reserve – 40 hrs)

<table>
<tr><td colspan="2">Table of contents</td></tr>
<tr><td>1.</td><td>DIVISIBILITY OF NATURAL NUMBERS
Divisors and multiples of natural numbers.
Signs of divisibility by 2, 3, 5, 9, and 10.
Simple and composite numbers.
Separating numbers into simple multipliers.
The largest common divisor.
The smallest common multiplier</td></tr>
<tr><td>2</td><td>COMMON FRACTIONS
The main feature of a fraction. Simplifying fractions. The smallest common denominator of fractions. Reducing a fraction to a common denominator. Fraction comparison.
Arithmetic operations with common fractions.
Finding a fraction of a number and a number by a fraction.
Turning common fractions into decimal ones.
Infinite repeating decimals. Decimal rounding of a common fraction</td></tr>
<tr><td>3.</td><td>RELATIONS AND PROPORTIONS
Relations. Proportion. The main features of a proportion. Direct and inverse proportion. Number dividing in this relation.
Scale.
Percentage relations between two numbers. Percentage calculations.
Circle. Circle length. Circular disk.
Circular disk area. Circular sector. Histograms and pie charts</td></tr>
<tr><td>4.</td><td>RATIONAL NUMBERS AND OPERATION WITH THEM
Positive, negative numbers, and zero.
Crossbar.
Opposite numbers. Number module.
Integers. Rational numbers.
Comparison of rational numbers.
Arithmetic operations with rational numbers.
Features of adding and multiplying of rational numbers.</td></tr>
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Removing parentheses. Similar summands and adding them.
Equations. Typical features of equations.
Perpendicular and parallel lines, and building them using a ruler and a triangle.
Axial plane. Examples of dependence graphs between the values

Expected results
Pupil:

- develops, enriches and deepens knowledge about numbers and operations with them, numerical and letter phrases, values and measuring them, equations, numerical inequalities, and concept of separate geometrical figures on a plane and in space.
- Solves tasks on: calculation of percentage of different values (e.g., the able-bodied citizens of the region, calories, etc.); making decisions in financial operations, calculation of his/her own or family finances, utility bills; disposing of his or her own funds, assessing the expected and actual expenses, etc.