

Elementary 2 Math Demonstrations



DVD One

Menu 1

- 105 Fraction Circles, Decimal Cubes: Presentation of Quantity
- 106 Decimal Board and Cubes: Symbol Linked to Quantity
- 107 Decimal Board and Cubes: Formation and Reading of Quantities
- 108 Decimal Board and Cubes: Addition
- 109 Decimal Board and Cubes: Subtraction
- 110 Decimal Board and Cubes: Multiplication by a Unit

Menu 2

- 111 Decimal Cubes: Division by a Unit
- 112 Decimal Board and Cubes: Multiplying a Decimal Fraction by a Decimal Fraction
- 113 Decimal Board and Cubes: Multiplying a Decimal Fraction by a Decimal Fraction and Writing Partial Products
- 114 Paper: Abstraction of Rule for Multiplying Decimal Fractions
- 115 Decimal Board and Cubes: Division of a Decimal by a Decimal
- 116 Decimal Board and Cubes: Abstraction of the Rule for Dividing Decimal Fractions

Menu 3

- 117 Fraction Circles, Centesimal Frame: Conversion of Common Fractions to Decimal Fractions
- 118 Decimal Squares: Introduction to the Decimal Checker Board
- 119 Decimal Checker Board: Decimal Checker Board Multiplication
- 120 Decimal Checker Board: Writing Partial Products
- 121 Decimal Board, Test Tube Division: Effects of Multiplication or Division by Powers of Ten

Menu 4

123 Paper: Relative Size of Terms When Dividing Numbers

124 Bead Cabinet Short Chains: Geometric Designs with Short Chains

125 Bead Cabinet: Concept and Notation of Squares

126 Bead Cabinet: Notation of Squares Layout

127 Bead Cabinet: Concept and Notation of Cubes

128 Bead Cabinet: Notation of Cubes Layout

Menu 5

129 Bead Cabinet: Geometric Designs with Cubing Chains

130 Bead Cabinet: Finding the Totals of Squares and Cubes

131 Bead Bars, Bead Cabinet Squares: Table Layout and Power Scales (Patterns in Successive Differences)

132 Bead Bars, Bead Cabinet Squares: Decanomial Layout: Finding Squares

133 Bead Bars, Bead Cabinet Squares: Adjusted Decanomial: Commutative Law

134 Bead Bars, Bead Cabinet Squares and Cubes: Adjusted Decanomial: Tower of Jewels

Menu 6

135 Bead Bars, Bead Cabinet Squares: Numerical Decanomial: Distributive Law

136 Paper Rectangles and Squares: Numerical Decanomial

137 Bead Bars, Bead Cabinet Squares: Algebraic Decanomial

138 Bead Cabinet Squares: Addition

139 Bead Cabinet Squares: Subtraction

140 Bead Cabinet Squares: Multiplication

Menu 7

141 Bead Cabinet Squares: Division

142 Bead Cabinet Squares: Transformation of a Square into a Binomial

143 Bead Cabinet Squares: Transformation of a Square into a Trinomial

144 Paper Square of 100 Circles: Transformation of a Square on Circle Paper

145 Graph Paper: Transformation of a Square on Graph Paper

146 Bead Cabinet Squares: Algebraic Expression of a Binomial

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147 Bead Cabinet Squares: Algebraic Expression of a Trinomial

148 Bead Cabinet Squares, Bead Bars: Passing to a Successive Square Numerically

149 Bead Cabinet Squares: The Sequence of Squares

150 Bead Cabinet Squares, Bead Bars: Passing to a Non-Successive Square Numerically

151 Bead Cabinet Squares, Bead Bars: Changing From One Square to Another Algebraically

152 Bead Bars: Squaring a Binomial Numerically

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DVD Two

Menu 1

- 153 Bead Bars: Squaring a Trinomial Numerically
- 154 Bead Bars: Squaring a Polynomial Numerically
- 155 Bead Bars: Squaring a Binomial Algebraically
- 156 Bead Bars: Squaring a Trinomial Algebraically
- 158 Golden Bead Material: Squaring a Binomial Hierarchically

Menu 2

- 159 Peg Board: Transition from a Real Square to a Symbolic One
- 160 Peg Board: Squaring Binomials Hierarchically with Pegs
- 161 Peg Board: Squaring Trinomials Hierarchically with Pegs
- 162 Graph Paper: Squaring on Graph Paper
- 163 Peg Board: Squaring Hierarchically with Pegs: Special Cases
- 164 Peg Board: Extracting the Rules for Squaring

Menu 3

- 165 Cubing Material: Passing from a Cube to a Successive Cube
- 166 Cubing Material: Passing from a Cube to a Non-Successive Cube
- 167 Cubing Material: Cubing a Binomial Starting From the Square
- 168 Cubing Material: Cubing a Binomial Starting From the Cube of the First Term
- 169 Binomial Cube: Algebraic Expression of the Binomial Cube
- 170 Cubing Material: Algebraic Expression of the Cube

Menu 4

- 171 Trinomial Cube: Algebraic Expression of the Trinomial Cube
- 172 Trinomial Cube: Giving the Cube of the Trinomial Numerical Value
- 173 Trinomial Cube: Story of the Three Kings/Rulers: First Layout

174 Trinomial Cube: Story of the Three Kings/Rulers: Second Layout

175 Hierarchical Trinomial: Story of the Three Kings/Rulers: Third Layout

176 Hierarchical Trinomial: Cubing a Decimal Number

Menu 5

177 Bead Squares: Concept, Language and Notation of Square Roots

178 Square Root Unit Board: Extracting a Square Root for Numbers Less Than 225

179 Golden Bead Material: Extracting a Square Root for Numbers Less Than 9999

180 Paper: Finding the Number of Digits in a Root

181 Peg Board: Extracting a Square Root Writing Only the Answer

182 Peg Board: Extracting a Square Root Writing Answers and The Amount Used

Menu 6

183 Peg Board: Extracting a Square Root Writing an Analysis of the Amount Used

184 Peg Board: Backtracking

185 Peg Board: Special Cases: Zero at the End of the Root

186 Peg Board: Special Case: Zero in the Middle of the Root

Menu 7

189 Paper: Calculation on Paper

190 Bead Cubes: Concept, Language and Notation of Cube Roots

191 Chart of Numbers 1-9: Finding Cube Roots with Chart of Numbers 1-9

192 Cubing Material: Extracting a Cube Root of 4-6 Digit Numbers

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DVD Three

Menu 1

193 Hierarchical Trinomial Cube: Extracting a Cube Root of 7-9 Digit Numbers

194 Hierarchical Trinomial Cube: Backtracking

195 Hierarchical Trinomial Cube: Special Case: Zero at the End of the Root

196 Hierarchical Trinomial Cube: Special Case: Zero in the Middle of the Root

197 Paper: Calculation of Cube Root on Paper

198 Power of Two Cube: Powers of Two

199 Included in 198

Menu 2

200 Power of Two Cube, Cubing Material: Any Number Can be a Base

201 Included in 200

202 Hierarchical Material: Powers of Ten

203 Cubing Material: Multiplying Numbers of the Same Base

204 Cubing Material: Dividing Numbers of the Same Base

205 Negative Snake Game: Addition of Signed Numbers

206 Negative Snake Game: Subtraction of Signed Numbers

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207 Negative Snake Game: Multiplication of Signed Numbers

208 Negative Snake Game: Division of Signed Numbers

211 Addition Finger Chart: Addition (Base 5)

212 Subtraction Finger Chart: Subtraction (Base 5)

Menu 4

213 Multiplication Finger Chart: Multiplication

215 Non-Decimal Base Board, Bead Cabinet: Conversion From One Base to Base 10

217 Distance, Velocity and Time Material: Algebraic Notation for Distance, Velocity and Time

218 Distance, Velocity and Time Material: Introduction and Solving for Distance

Menu 5

219 Distance, Velocity and Time Material: Solving for Time

220 Distance, Velocity and Time Material: Solving for Velocity

221 Time, Rate, Interest and Principal Material: Solving for Interest Levels I, II, III

222 Time, Rate, Interest and Principal Material: Solving for Principal Levels I, II, III

222B Time, Rate, Interest and Principal Material: Solving for Rate Levels I, II, III

223 Time, Rate, Interest and Principal Material: Solving for Time Levels I, II, III

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DVD Four

Menu 1

224 Peg Board, Geography Stamps: Concept, Language and Notation of Ratio

225 Peg Board: Ratio in Terms of Multiples

226 Peg Board: Problem Solving Using Ratios

227 Peg Board: Ratio Expressed as a Fraction

228 Peg Board: Word Problems

229 Geography Stamps, Bead Bars: Concept, Language and Notation of Proportion

Menu 2

231 Power of Two Cube: Proportions With 3 Dimensional Figures

232 Peg Board: Proportions With Pegs

233 Paper: Cross Multiplication

234 Paper: Word Problems

235 Bead Bars: Balancing an Equation: Addition

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236 Bead Bars: Balancing an Equation: Subtraction

237 Bead Bars: Balancing an Equation: Multiplication

238 Bead Bars: Balancing an Equation: Division

239 Bead Bars: Solving for an Unknown: Addition

240 Bead Bars: Solving for an Unknown: Subtraction

241 Bead Bars: Solving for an Unknown: Multiplication

Menu 4

242 Bead Bars: Solving for an Unknown: Division

243 Paper: Algebraic Word Problems: One Unknown