1. Mathematical Reasoning

A. Draw conclusions about mathematics
   1. Factor & product relationships ................................................................. 1
   2. Statements using: "and", "or", "not" ............................................................... 4
   3. Draw diagrams for problems ................................................................. 6

B. Analyze mathematical situations
   1. Add., sub., mult., in number patterns ......................................................... 9
   2. Patterns in number sequences ............................................................... 11
   3. Symmetry or patterning in number tables ................................................. 12
   4. Money as related to fractions and decimals .............................................. 14

C. Justify their answers & solution processes
   1. Verify an answer to a problem ................................................................. 19
   2. Justify answers with estimation & checking ............................................ 22

D. Simple conclusions through logical reasoning
   1. Solve problems with diagrams, charts, & tables ....................................... 24
   2. Solve problems with estimation, patterns ............................................... 34
   3. Identify missing/extra info. in problems .................................................. 36

2. Number and Numeration

A. Use numbers to count objects & measure distance
   1. Read & write whole numbers ................................................................... 39
   2. Ordinal numbers ...................................................................................... 41
   3. Relate fractions & decimals to money ..................................................... 43
   4. Use of fractions & decimals in daily life .................................................. 51

B. Number relationships w/ concrete materials
   1. Place value models .................................................................................. 57
   2. Odd & even numbers from add., sub., mult. .............................................. 61
   3. Prime numbers ....................................................................................... 62
   4. Divide a figure into equal parts ............................................................... 63
   5. Order unit fractions & decimals ............................................................. 65
   6. Find equivalent fractions ....................................................................... 66
   7. Negative & positive values ...................................................................... 68
   8. Skip counting ......................................................................................... 70
C. Relate counting to grouping & to place value
  1. Place value concepts ................................................................. 71

D. Order of integers, fractions & decimals
  1. Whole numbers to millions ...................................................... 75
  2. Fractions .................................................................................. 77
  3. Decimals .................................................................................. 79
  4. *Equivalent fractions and decimals ......................................... 80

E. Ratio and percent problems in actual situations
  1. Percents .................................................................................. 81
  2. Ratio in real world situations .................................................. 84

F. *Add/Sub/Mult/Divide Decimals & Fractions
  1. *Decimals ................................................................................ 88
  2. *Fractions ............................................................................... 93

3. Operations

A. Add, subtract, multiply, & divide whole numbers
  1. Add. and sub. of integers ......................................................... 95
  2. Subtraction with zeros in the minuend ................................... 106
  3. Multiply 2 & 3 digit numbers .................................................. 107
  4. Multiplication by multiples of 10 ............................................. 112
  5. Division of 2 & 3 digit numbers .............................................. 113

B. Select the correct operation to solve a problem
  1. Using diagrams & charts ......................................................... 117
  2. Using open sentences ............................................................... 119
  3. Using com., assoc., distr., inv. properties ................................. 123
  4. Looking for patterns ................................................................. 124
  5. Breaking problem into parts ................................................... 125

C. Know single digit add., sub., mult., div. facts
  1. Inverse relationships of operations ......................................... 129
  2. Special role of zero ................................................................. 130
  3. Multiplication & division facts through 144 ............................ 131
  4. Application of identity elements of add./mult. ......................... 136

D. Understand the com. & assoc. properties
  1. Commutative property: addition, multiplication ..................... 137
  2. Associative property: addition, multiplication ....................... 138
4. Modeling/Multiple Representation

A. Materials to model spatial relations
   1. Properties of plane figures
      a. Quadrilaterals ................................................................. 139
      b. Triangles ................................................................. 142
      c. Circles ................................................................. 145
      d. Other polygons .......................................................... 147
   2. Properties of solid figures ............................................. 149
   3. Designs & patterns with geometric figures .......................... 152
   4. *Transformations
      a. *Rotation ................................................................. 156
      b. *Reflection ............................................................... 158
   5. *Similar and congruent figures ....................................... 159

B. Tables, charts, & graphs
   1. *Coordinate plane
      a. *Ordered pairs ........................................................... 161
      b. *Geometry and the coordinate plane ............................... 167
   2. Graphs & charts of real-world data .................................. 169
   3. Conclusions & predictions from graphs ............................. 188

C. Multiple representations in common procedure
   1. Perimeter, area, & volume by counting units ....................... 197
   2. Area of circles by counting units in a grid ......................... 199
   3. Volume by filling space w/ objects .................................. 200

D. Use variables to predict changes over time
   1. Temperatures & heights over time .................................... 201

E. Materials for processes & geometric concepts
   1. Geometry terms .......................................................... 203
   2. Common plane & solid geometric figures ........................... 205
   3. Construction tools: ruler, compass, protractor .................... 207
   4. Lines of symmetry ....................................................... 209
### 5. Measurement

**A. Understand that measurement is approximate**
- Identify appropriate metric units ................................................................. 213

**B. Select appropriate measurement tools**
- Select proper (non)standard measurements .................................................. 215
- Relate decimal concepts to metric measurements ....................................... 217
- Relate the clock face to fractions of a circle .............................................. 218

**C. Measured attributes: area, volume, time, weight**
- Measurement problems: Time ........................................................................ 219
- Area & volume by counting units ................................................................. 227
- Measurement problems: Weight ................................................................. 228
- Measurement problems: literature, science, etc. ......................................... 230

**D. Estimate/find measurements**
- Appropriate measurement tools ................................................................. 232
- Compare equivalent measures ..................................................................... 234
- Perimeter of polygons .................................................................................. 236
- Circumference of circles using string ......................................................... 238

**E. Collect & display data**
- Graphs of data ............................................................................................ 239
- Frequency tables from tallied data .............................................................. 240
- Organize data w/ graphs, models, pic., & lists ............................................. 242

**F. Use statistical methods to interpret data**
- Materials for the concept of average ......................................................... 245
- Find the range & the mean of data ............................................................. 246
6. Uncertainty

A. Estimates to compare to measurements
   1. Rounding numbers on number lines & measurements ........................................... 249
   2. Estimate measurements before measuring ............................................................... 250

B. Estimates to compare to computations
   1. Estimate the outcomes of problems/experiments ...................................................... 251

C. Find situations that only need an estimate
   1. Meaning of large numbers through activities .......................................................... 252

D. Develop a wide variety of estimation skills
   1. Round numbers ........................................................................................................ 253
   2. Estimating add., sub., mult., div. ............................................................................. 254
   3. Strategies for estimating quantities ........................................................................ 256
   4. Develop strategies for estimating measurements .................................................... 257

E. Determine the reasonableness of results
   1. The number of possible combinations .................................................................... 258

F. Predict experimental probabilities
   1. Conduct/predict outcomes of various experiments ................................................... 259
   2. Likelihood of events ............................................................................................... 260

G. Make predictions using unbiased random samples
   1. Use spinners, drawing objects from a bag, etc. ......................................................... 262

H. Determine probabilities of simple events
   1. The number of ways an event can occur ................................................................. 265
   2. Probability with fractions ...................................................................................... 267
   3. Identification of ordered arrangement ..................................................................... 270
7. Patterns/Functions

A. Recognize, describe, extend, & create patterns
   1. Number patterns & sequences ................................................................. 273
   2. Repeated patterns (abab, etc.) ............................................................... 277
   3. Design patterns ...................................................................................... 279

B. Represent & describe mathematical relationships
   1. Use symbols <, > .................................................................................. 283
   2. Terms at most & at least ........................................................................ 284
   3. Present division facts ............................................................................. 285
   4. Describe number sequences ................................................................. 286
   5. Relationships of add., sub., mult., div. .................................................. 287
   6. Relate fraction notation to decimal notation ......................................... 288
   7. Sum, difference & product is odd or even ............................................. 288

C. Variables, open sentences to show relationships
   1. Solve open sentences with missing information ..................................... 289
   2. Use mult. & div. in equalities & inequalities .......................................... 290
   3. Formulas: perimeter & area of geometric shapes .................................. 291

D. Explore patterns w/ technology
   1. Calculators to skip count & relate mult. ............................................... 292

E. Interpret graphs
   1. Trends in bar graphs & line graphs ....................................................... 295

F. Relationships of 2D & 3D shapes
   1. The geometric shapes of the faces of solids ........................................ 296
   2. Identify different 3-D shapes
      a. Cones ................................................................................................. 297
      b. Pyramids .......................................................................................... 297
      c. Spheres ............................................................................................ 298
      d. Cylinders .......................................................................................... 298
      e. Prisms ............................................................................................... 299

G. Discover patterns in nature, art, music, & lit.
   1. 2D & 3D shapes in nature ..................................................................... 300
   2. Examples of tessellations in the real world ....................................... 301
   3. Symmetry in nature, art, & music ...................................................... 302
   4. Relate fraction to beat value of notes in music .................................. 303
   5. Relate children’s literature to mathematics ....................................... 303
1. Mathematical Reasoning
B. Analyze mathematical situations

1292. Base your answer on the key shown below, which represents the value for each symbol.

```
 1000 100 10 1
```

What is the total value represented by the symbols above?

17.

```
□ + 4 = ○
○ - △ = 5
○ - □ = 4
```

In these number sentences, the same shape stands for the same number.

**Part A**
Use the number sentences to find which numbers the triangle, square and circle stand for. Write the correct number in each shape above.

**Part B**
Explain the steps you used to find the answer.

```
5 + 4 = 9
9 - 4 = 5
9 - 5 = 4
```

194.

```
○ ○ ○ ○ ○ ○ ○ ○ ○ ○
```

Write a multiplication sentence to find the number of circles above.

\[ \_ \times \_ = \_ \]

5 × 3 = 15
or
3 × 5 = 15

643. Look at the number pattern in the box below.

89, 85, 81, 77, ____

Which number comes next in the pattern?

(A) 72 (C) 74
(B) 73 (D) 75

843. Which of the following is a multiple of 7?

(A) 14 (C) 27
(B) 22 (D) 37
2. Number and Numeration  
B. Number relationships w/ concrete materials

48. What is another way to express the portion of the circle that is shaded?
   (A) 2/8       (C) 3/4
   (B) 1/4       (D) 7/8

49. Gretchen ordered a large pizza for her slumber party. The pizza pie was cut into 10 equal slices. Each girl ate 2 slices of pizza. What fraction of the pie did each girl eat?
   (A) 1/10       (C) 2/5
   (B) 1/5       (D) 2/8

405. Which circle is $\frac{3}{4}$ shaded?
   (A) 
   (B) 
   (C)  
   (D) 

406. In which picture are 2/3 of the dots small?
   (A) 
   (C) 
   (B) 
   (D) 

762. All the water in these four glasses was poured into one glass. What will happen?
   (A) The water would fill to the top of the glass.  
   (B) The water would overflow the glass.  
   (C) The water would not fill to the top of the glass.

935. Kevin ate 2 slices of a pizza pie that had 8 slices. What fraction of the pizza was not eaten?
   (A) $\frac{1}{2}$       (C) $\frac{1}{4}$
   (B) $\frac{3}{4}$       (D) $\frac{2}{3}$

1140. 

1303.

How much of the bar is shaded?
   (A) $\frac{3}{4}$       (C) $\frac{1}{4}$
   (B) $\frac{1}{2}$       (D) $\frac{2}{4}$

There is a bag of 20 marbles. 10 are blue, 5 are purple, 3 are orange, and 2 are green. What fraction of the marbles are not purple?
   (A) $\frac{5}{20}$       (C) $\frac{1}{4}$
   (B) $\frac{15}{20}$       (D) $\frac{16}{20}$
3. Operations
A. Add, subtract, multiply, & divide whole numbers

1. Add. and sub. of integers
a. Add. & sub. of integers

A. Add, subtract, multiply, & divide whole numbers

Which two of the items above would provide a total of about 600 calories?

______________________________
______________________________

1127. Base your answer to the following question on the chart below that shows the number of lunches ordered on each day for one week at Wilson Elementary school.

**SCHOOL LUNCHES OFFERED AT WILSON ELEMENTARY SCHOOL**

<table>
<thead>
<tr>
<th>Day of the Week</th>
<th>Number of Lunches Ordered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>75</td>
</tr>
<tr>
<td>Tuesday</td>
<td>25</td>
</tr>
<tr>
<td>Wednesday</td>
<td>50</td>
</tr>
<tr>
<td>Thursday</td>
<td>100</td>
</tr>
<tr>
<td>Friday</td>
<td>150</td>
</tr>
</tbody>
</table>

How many more students ordered school lunches on Friday than on Monday?

(A) 55  (B) 65  (C) 75  (D) 85

68. Solve:

1756 + 293 =
(A) 1,463  (C) 2,049  (B) 1,049  (D) 2,059

69. Add:

659 + 274 =
(A) 385  (C) 933  (B) 833  (D) 943

70. Subtract:

879 – 413 =
(A) 456  (C) 566  (B) 466  (D) 1,292

71. Subtract:

92,158 – 63,731 =
(A) 28,427  (C) 30,027  (B) 29,427  (D) 155,889

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733. This graph shows the results of a classroom vote on favorite pets.

FAVORITE PETS

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cat</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dog</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Other</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

How many more students voted for dogs than for cats?
- (A) 5
- (B) 6
- (C) 3
- (D) 4

754. Use the graph to answer the question below.

On what day did the maximum temperature occur?
- (A) 10
- (B) 3
- (C) 6
- (D) 8

909. Students recorded the average daily temperatures over a 10 day period.

<table>
<thead>
<tr>
<th>Day</th>
<th>Temperature (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>68</td>
</tr>
<tr>
<td>2</td>
<td>69</td>
</tr>
<tr>
<td>3</td>
<td>71</td>
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<tr>
<td>4</td>
<td>70</td>
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<tr>
<td>5</td>
<td>72</td>
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<tr>
<td>6</td>
<td>75</td>
</tr>
<tr>
<td>7</td>
<td>73</td>
</tr>
<tr>
<td>8</td>
<td>74</td>
</tr>
<tr>
<td>9</td>
<td>72</td>
</tr>
<tr>
<td>10</td>
<td>72</td>
</tr>
</tbody>
</table>

About 11 million people live in Ohio. About how many of them live in cities?
- (A) 11 million
- (B) 8 million
- (C) 3 million
- (D) 1 million

Who got the highest score?
- (A) Jen
- (B) Evan
- (C) Jane
- (D) Jaime

By how much did Jaime beat Mike?
- (A) 1
- (B) 2
- (C) 3
- (D) 4