

## Archdiocesan Math Contest Objectives

### Fourth Grade

Whole Numbers - Place Value, Add, Subtract, Multiply 1 and 2 Digit

Divide 1 and 2 Digit

Use of parentheses

Fractions - Equivalency, Adding, Write as a decimal

Decimals - Place Value, Add, Subtract

Time Conversions

Money

Prime Numbers

Perimeter - Rectangle

Measurement - metric, standard

Problem Solving

### Fifth Grade

Whole Numbers - Add, Subtract, Multiply, Divide

Fractions - Add, Subtract, Multiply, Equivalency

Decimals - Add, Subtract, Multiply, Divide, Rounding

Percents - Finding Part, Finding %, Rounding

Measurement - standard

Time

Averaging

Area - Rectangle, Circle

Perimeter - rectangle

Volume - rectangular

Using Celsius Formula

Problem Solving

### Sixth Grade

Whole Numbers - Add, Subtract, Divide, Multiply

Use of parentheses

Prime Numbers - Prime Factorization

Fractions - Add, Subtract, Multiply, Divide, Reduce, Reciprocal, LCM

Decimals - Add, Subtract, Multiply, Divide, Rounding

Averages

Exponents

Percents - Finding Part, Finding Percent, Interest, Discounts, Sales Price, Commission, Sales Tax, Total Cost

Measurements - standard metric

Area

Perimeter

Circumference

Ratio and Proportion

Scale Drawings

Distance Formula

Pre - Algebra

Problem Solving

Time

### Seventh Grade

Whole Numbers, Fractions, Decimals, (4 Operations)

LCM, GCF, , Fractions to decimals, fraction equivalency, fractions to %

Percent - 3 types, write as fractions, rounding, discount sales price

Integers - 4 operations, absolute value

Pre Algebra

Averaging

Exponents, Scientific Notation, Square Root

Measurement - metric and standard

Area - rectangle, square, triangle, parallelogram, trapezoid

Perimeter- square

Volume - cylinder

Circumference

Angle measurement

Ratio and proportion

Pythagorean Theorem

Prime Numbers

Time

Probability

Statistics

Eighth Grade

Fractions - 4 operations, change to decimal, LCM,GCF, Reciprocal

Decimals - divide, Repeating, change to fraction, rounding

Integers - operations, absolute value

Use of parentheses

Percents - 3 types, change to fractions, commission, sales tax, wholesale, and retail price

Exponents, Square Root, Scientific Notation

Pre- Algebra

Ratio and Proportion

Measurement - standard operations

Prime Factorization

Averaging

Using Given Formulas

Angle Measurements

Surface Area

Volume

Number Series

Probability

Sum of consecutive integers

Problem Solving

Algebra

Basic Algebra concepts covered during first year algebra