

Name: \_\_\_\_\_

### Olympiads School Tentative Math Grade 8 Course Outline

Class NO.	Content	Date
Class 1	Fractions and Decimals	Tue, Sep 13 ~ Sun, Sep 18
Class 2	Ratio and Percent	Tue, Sep 20 ~ Sun, Sep 25
Class 3	Algebra	Tue, Sep 27 ~ Sun, Oct 2
Class 4	Geometry	Tue, Oct 4 ~ Sun, Oct 9
Class 5	Number Theory	Tue, Oct 11 ~ Sun, Oct 16
Class 6	Counting and Pattern	Tue, Oct 18 ~ Sun, Oct 23
Class 7	Statistics and probability	Tue, Oct 25 ~ Sun, Oct 30
<b>Class 8</b>	<b>Practice test 1</b>	<b>Tue, Nov 1 ~ Sun, Nov 6</b>
<b>Class 9</b>	<b>Practice test 2</b>	<b>Tue, Nov 8 ~ Sun, Nov 13</b>
	<b>AMC 8 Exam</b>	<b>Tue, Nov 15</b> <i>*Regular M8-1 class is cancelled. Students can join the other sessions to make up lesson 10.</i>
Class 10	3D Geometry	Fri, Nov 18 ~ Sun, Nov 20
Class 11	Counting and Patterns 1	Tue, Nov 22 ~ Sun, Nov 27
Class 12	Counting and Patterns 2	Tue, Nov 29 ~ Sun, Dec 4
Class 13	Fractions 1	Tue, Dec 6 ~ Sun, Dec 11
Class 14	Fractions 2	Tue, Dec 13 ~ Sun, Dec 18
Class 15	Percentage	Mon, Dec 19 ~ Fri, Dec 23 <i>*Weekend classes will be doing a make up class during the weekday. Schedule: TBA</i>
	<b>HOLIDAY</b>	<b>Sat, Dec 24 ~ Sun, Jan 1</b>
Class 16	Ratio, Proportion and Rate	Tue, Jan 3 ~ Sun, Jan 8
Class 17	Number Theory	Tue, Jan 10 ~ Sun, Jan 15
Class 18	Geometry 1	Tue, Jan 17 ~ Sun, Jan 22
Class 19	Geometry 2	Tue, Jan 24 ~ Sun, Jan 29

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Class 20	Calculations and Operations	Tue, Jan 31 ~ Sun, Feb 5
Class 21	Algebra 1	Tue, Feb 7 ~ Sun, Feb 12
Class 22	Algebra 2	Tue, Feb 14 ~ Sun, Feb 19
Class 23	Word Problems 1	Tue, Feb 21 ~ Sun, Feb 26
Class 24	Word Problems 2	Tue, Feb 28 ~ Sun, Mar 5
Class 25	Calculation and Operation	Tue, Mar 7 ~ Sun, Mar 12
Class 26	Geometry 1	Tue, Mar 14 ~ Sun, Mar 19
Class 27	Geometry 2	Tue, Mar 21 ~ Sun, Mar 26
<b>Class 28</b>	<b>Practice Test 1</b>	<b>Tue, Mar 28 ~ Sun, Apr 2</b>
<b>Class 29</b>	<b>Practice Test 2</b>	<b>Tue, Apr 4 ~ Sun, Apr 9</b>
Class 30	Number Theory	Tue, Apr 11 ~ Sun, Apr 16
	<b>Euler Math Contest</b>	<b>Wed, Apr 12</b>
Class 31	Ratio, Rate & Percent	Tue, Apr 18 ~ Sun, Apr 23
Class 32	Pattern	Tue, Apr 25 ~ Sun, Apr 30
<b>Class 33</b>	<b>Practice Test</b>	<b>Tue, May 2 ~ Sun, May 7</b>
Class 34	Geometry	Tue, May 9 ~ Sun, May 14
	<b>Gauss Math Contest</b>	<b>Wed, May 10</b>
Class 35	Ratio, Rate, and Proportion	Tue, May 16 ~ Sun, May 21
Class 36	Calculations and Operations	Tue, May 23 ~ Sun, May 28
Class 37	Statistics and Probability	Tue, May 30 ~ Sun, Jun 4
Class 38	Algebra	Tue, Jun 6 ~ Sun, Jun 11
<b>Class 39</b>	<b>Final Test</b>	<b>Tue, Jun 13 ~ Sun, Jun 18</b>

## HOMEWORK

- There is homework after each class.
- The homework is posted on Olympiads School website: <http://www.olympiads.ca/>
- Students need to print out the homework after each class and finish it by the next class.
- The homework is marked with “P” for pass and “I” for incomplete.

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## CONTEST

All of the grade 7 & 8 math courses for the upcoming semester will cover below three contests:

### 1) AMC 8 (American Mathematics Competition)

This contest is an annual national math contest for all levels of grade 7 and 8 students (grade 7 and 8 students share one contest), and is hosted by Mathematical Association of America. The contest is held every year in November.

AMC 8 has 25 multiple choice questions per test with a total score of 25 and must be completed within 40 minutes. Students with a score of 20 or higher will usually receive a summer math camp invitation letter in April in the US.

### 2) Mathematica Series Contest

This contest is a national contest series hosted by Mathematica Contest Centre in Pierrefonds, Quebec, and is held every year in April. This contest series consist of seven different contests. They are: Thales (grade 3), Byron - Germain (grade 4), Fibonacci (grade 5), Pythagoras (grade 6), **Euler (grade 7)**, **Lagrange (grade 8)**, and Newton (grade 9). All contests above grade 6 are 75 minutes long.

### 3) Waterloo Mathematics Contest Series

The Waterloo mathematics contest series is for all students from grade 7 to 12. It is also called Canadian Mathematics Competition. This is the official contest series in Canada. It is hosted by University of Waterloo, hence called Waterloo contest series.

This contest series has different names for each of the different contest: **Gauss (grade 7 and 8)**, Pascal (grade 9), Caley (grade 10), Fermat (grade 11), and Euclid (grade 12). Each of the contests from grade 7 - 11 contains **25 multiple choice** questions with a **total score of 150** and must be completed within **one hour**.

Even though the grade 7 and 8 contests share the same name (Gauss), they have different questions. Grade 8 Gauss contest has more difficult problem than grade 7 Gauss contest. Both Gauss contests are held every year in May.