

OLMC Summer Math for Incoming 5th Graders

This summer, we are asking students to focus on building math fluency. Fluency is the ability to perform math calculations quickly and accurately, without a calculator or notes.

When students return from summer break, they will be assessed on:
Addition, Subtraction, Multiplication, and Division

In order to prepare for the fall assessment, we are asking that students review the skills listed below, **using resources of their choice** (suggested resources are listed below).

<i>Description</i>	<i>Examples</i>			
Add & subtract numbers up to 20 fluently (from memory)	15 - 7	12 + 9	14 - 8	9 + 11
Multiply by numbers up to 12 fluently (from memory)	11 x 8	7 x 6	4 x 9	12 x 12
Divide by numbers up to 12 fluently (from memory)	14 ÷ 2	72 ÷ 9	32 ÷ 4	108 ÷ 12
Know how to solve a long division problem with a single-digit divisor	52 ÷ 9	42 ÷ 3	19 ÷ 5	114 ÷ 4

RESOURCES:

Use whatever you find most helpful (and most fun!): computer games, free online websites, flashcards, workbooks, traditional games (Monopoly, Yahtzee, dominoes, dice games, card games, etc.). To become fluent, students should practice skills regularly (at least 30-60 min. per week) over the summer.

Explore any websites that you like. The following are simply suggestions (not required):

- [Mathantics.com](http://www.mathantics.com) (free tutorial videos; additional features with a subscription; also available as an app)
- [www.KhanAcademy.com](http://www.khanacademy.com) (tutorial videos and practice in all areas of math)
- www.adaptedmind.com (create your own worksheets, track progress; games, tutorials)
- <http://www.adaptedmind.com/Math-Worksheets.html?type=kids> (Don't let the word "worksheets" in the url fool you --- this website has games, tutorial videos, etc.)
- www.mathplayground.com (more games and practice; some overlap with adaptedmind.com)
- [Mathletics.com](http://www.mathletics.com) * (games, practice, tutorials, and timed tests)

Virtual Field Trips -- Take Math-Related Virtual Field Trips and see how math is used in the real world!

<p>Math at Work – https://www.hmhco.com/blog/math-at-work-jobs-that-involve-math-skills Math Meets: – <i>Homebuilding:</i> https://youtu.be/mFIU1hfCGI4 – <i>Culinary Arts:</i> https://youtu.be/yD1i3RRV2zq – <i>Fashion:</i> https://youtu.be/eqXZXSUV34 – <i>Entrepreneurship:</i> https://www.youtube.com/watch?v=tAfcZ3ArEs8 – <i>The Olympics:</i> https://youtu.be/Nbn8yi7JRFA</p>	<p>Wonderopolis – https://wonderopolis.org <i>Cooking with Math</i> – Article: https://wonderopolis.org/wonder/How-Can-Math-Help-You-Cook Video: https://youtu.be/s4LJcqlrkw <i>How Can Negative Numbers Exist?</i> – Article: https://wonderopolis.org/wonder/How-Can-Negative-Numbers-Exist Video: https://youtu.be/6U1kCOuNpR4 <i>What Is Infinity?</i> – Article: https://wonderopolis.org/wonder/What-Is-Infinity Video: https://youtu.be/TKPBvUnOgyk <i>What Is the Pythagorean Theorem?</i> – Article: https://wonderopolis.org/wonder/What-Is-the-Pythagorean-Theorem Video: https://youtu.be/elr2w5jrFbQ <i>And Many More!</i></p>	<p>Other Non-Math-Related Virtual Field Trips <i>Wide Range of Virtual Field Trips</i> – https://www.mathnasium.com/pasadena/news/virtual-field-trips <i>Boeing</i> – <i>Johnson Space Center, Houston, TX</i> – https://www.boeingfutureu.com/virtual-field-trips/space <i>The Nature Conservancy</i> – Videos re Climate Change, Coral, Borneo Rainforest, China's Great Forests, America's Rainforests and Deserts, Renewable Energy, etc. – https://www.nature.org/en-us/about-us/who-we-are/how-we-work/youth-engagement/nature-lab/virtual-field-trips/ <i>Access Mars</i> – https://accessmars.withgoogle.com/</p>
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OLMC Summer Math for Incoming 6th Graders

This summer, we are asking students to focus on building math fluency. Fluency is the ability to perform math calculations quickly and accurately, without a calculator or notes.

When students return from summer break, they will be assessed on:
Multi-digit multiplication and long division

In order to prepare for the fall assessment, we are asking that students review the skills listed below, **using resources of their choice** (suggested resources are listed below).

<i>Description</i>	<i>Examples</i>
Multiply a 3-digit number by a 2-digit number	$426 \times 97 = 41,322$
Divide a 3-digit number by a divisor up to 12, using long division; express the remainder as a fraction or decimal (your choice); check your answer by multiplication, and then add the remainder if there is one	$327 \div 12 = 27.25$ or $27\frac{3}{12}$, which reduces to $27\frac{1}{4}$

RESOURCES:

Use whatever you find most helpful (and most fun!): computer games, free online websites, flashcards, workbooks, traditional games (Monopoly, Yahtzee, dominoes, dice games, card games, etc.). To become fluent, students should practice skills regularly (at least 30-60 min. per week) over the summer.

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OLMC Summer Math for Incoming 7th Graders

This summer, we are asking students to focus on building math fluency. Fluency is the ability to perform math calculations quickly and accurately, without a calculator or notes.

When students return from summer break, they will be assessed on:

**Multi-digit multiplication and long division;
Decimal addition, subtraction, multiplication, and division.**

In order to prepare for the fall assessment, we are asking that students review the skills listed below, **using resources of their choice** (suggested resources are listed below).

<i>Description</i>	<i>Examples</i>
Multiply a 3-digit number by a 2-digit number	$426 \times 97 = 41,322$
Divide a 4-digit number by a 2-digit number, using long division; check your answer by multiplication (and then adding the remainder, if there is one)	$8,325 \div 64 = 130\frac{5}{64}$ or 130.078...
Add, subtract, and multiply decimals to hundredths	$14.3 + 1.61 = 15.91$ $9 - 4.3 = 4.7$ $8.4 \times 0.2 = 1.68$
Divide a decimal by a whole number	$1.5 \div 5 = 0.3$ $12.5 \div 2 = 6.25$

RESOURCES:

Use whatever you find most helpful (and most fun!): computer games, free online websites, flashcards, workbooks, traditional games (Monopoly, Yahtzee, dominoes, dice games, card games, etc.). To become fluent, students should practice skills regularly (at least 30-60 min. per week) over the summer.

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OLMC Summer Math for Incoming 8th Graders

This summer, we are asking students to focus on building math fluency. Fluency is the ability to perform math calculations quickly and accurately, without a calculator or notes.

When students return from summer break, they will be assessed on:

**Addition, subtraction, multiplication, and division
of rational numbers (integers, fractions, and decimals).**

In order to prepare for the fall assessment, we are asking that students review the skills listed below, **using resources of their choice** (suggested resources are listed below).

<i>Description</i>	<i>Examples</i>	
Add and subtract integers from -20 through 20; multiply and divide integers through 12s times tables	$8 + (-3) = 5$ $(-4) \times 7 = (-28)$	$(-6) - (-8) = 2$ $72 \div (-8) = (-9)$
Add, subtract, and multiply decimals to hundredths	$14.3 + 1.61 = 15.91$ $8.4 \times 0.2 = 1.68$	$9 - 4.3 = 4.7$
Divide with decimals in the dividend and/or divisor	$12.5 \div 2 = 6.25$ $125 \div 0.2 = 625$	$12.5 \div 0.2 = 62.5$
Multiply and divide fractions and mixed numbers	$2\frac{2}{3} \times 3\frac{3}{4} = 10$	$3\frac{1}{2} \div \frac{3}{4} = 4\frac{2}{3}$
Add and subtract fractions and mixed numbers with unlike denominators	$4\frac{1}{2} + 3\frac{1}{3} = 7\frac{5}{6}$ $8 - 3\frac{3}{5} = 4\frac{2}{5}$	$\frac{3}{4} + \frac{5}{8} = 1\frac{3}{8}$

RESOURCES: Use whatever you find most helpful (and most fun!): computer games, free apps or online websites, flashcards, workbooks, traditional games (Monopoly, Yahtzee, dominoes, dice games, card games, etc.). To become fluent, students should practice skills regularly (at least 30-60 min. per week) over the summer.

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