

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).

Description

Example

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)	11x8 7x6 4x9 12x12
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):

- [Math Antics](#) (free tutorial videos; additional features with a subscription)
- [Khan Academy](#) (tutorial videos and practice in all areas of math)
- [Adapted Mind](#) (create your own worksheets, track progress; games, tutorials)
- [Adapted Mind Worksheets](#) (Don't let the word "worksheets" in the url fool you --- this website has games, tutorial videos, etc.)
- [Math Playground](#) (more games and practice; some overlap with adaptedmind.com)
- [Mathletics](#) * (games, practice, tutorials, and timed tests)
- [ALEKS](#) (adaptive questioning to quickly and accurately determine what a student knows and doesn't know in a course)

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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:

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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 $130.078\dots$
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:

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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	$8 + (-3) = 5$ $(-6) - (-8) = 2$ $(-4) \times 7 = (-28)$ $72 \div (-8) = (-9)$
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 with decimals in the dividend and/or divisor	$12.5 \div 2 = 6.25$ $12.5 \div 0.2 = 62.5$ $125 \div 0.2 = 625$
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	$4\frac{1}{2} + 3\frac{1}{3} = 7\frac{5}{6}$ $\frac{3}{4} + \frac{5}{8} = 1\frac{3}{8}$ $8 - 3\frac{3}{5} = 4\frac{2}{5}$

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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