

Grade 5 Math Fluency Expectations

2.OA.B.2 By end of Grade 2, know from memory all sums of two one-digit numbers.

3.OA.C.7 By the end of Grade 3, know from memory all products of two one-digit numbers.

5.NBT.B.5 Fluently multiply multi-digit whole numbers using the standard algorithm.

Each quarter, students will be assessed on their ability to meet end of the year expectations.

When?	What?	How Assessed?	How Scored?
1 st Quarter	Single digit facts mixed operations of addition, subtraction, multiplication, division AND 3 digit by 3 digit multiplication AND long division with 1 digit divisor	Observation in classroom Individual Assessment Fact Fluency Summative	<i>Assessment (part 1):</i> <ul style="list-style-type: none"> forty single digit mixed operations problems timed three minutes MIXED OPERATIONS: EXT = 0 errors on mixed operations problems in 3 minutes and at least one problem answered correctly on apple section within 5 minutes MTG = 0 or 1 error on any mixed operations problem in 3 minutes; score on apple section does not count DEV = 2-4 errors on any mixed operations problem in 3 minutes; score on apple section does not count BEG = 4+ errors on any mixed operations problem in 3 minutes; score on apple section does not count
2 nd Quarter	Single digit facts mixed operations of addition, subtraction, multiplication, division AND 3 digit by 3 digit multiplication AND long division with 1 digit divisor	Observation in classroom Individual Assessment Fact Fluency Summative	<i>Assessment (part 2):</i> <ul style="list-style-type: none"> ten multi-digit multiplication problems EXT = 0 errors on any multi-digit multiplication problems and at least one problem answered correctly on apple section MTG = 0 errors on any multi-digit multiplication problem; score on apple section does not count DEV = 1 errors on any multi-digit multiplication problem; score on apple section does not count BEG = 2 or more errors on multi-digit multiplication problem; score on apple section does not count
3 rd Quarter	Single digit facts mixed operations of addition, subtraction, multiplication, division AND 3 digit by 3 digit multiplication AND long division with 1 digit divisor	Observation in classroom Individual Assessment Fact Fluency Summative	<i>Assessment (part 2):</i> <ul style="list-style-type: none"> ten multi-digit multiplication problems EXT = 0 errors on any multi-digit multiplication problems and at least one problem answered correctly on apple section MTG = 0 errors on any multi-digit multiplication problem; score on apple section does not count DEV = 1 errors on any multi-digit multiplication problem; score on apple section does not count BEG = 2 or more errors on multi-digit multiplication problem; score on apple section does not count
4 th Quarter	Single digit facts mixed operations of addition, subtraction, multiplication, division AND 3 digit by 3 digit multiplication AND long division with 1 digit divisor	Observation in classroom Individual Assessment Fact Fluency Summative	<i>Assessment (part 2):</i> <ul style="list-style-type: none"> ten multi-digit multiplication problems EXT = 0 errors on any multi-digit multiplication problems and at least one problem answered correctly on apple section MTG = 0 errors on any multi-digit multiplication problem; score on apple section does not count DEV = 1 errors on any multi-digit multiplication problem; score on apple section does not count BEG = 2 or more errors on multi-digit multiplication problem; score on apple section does not count

<http://www.gcamath.com/fact-fluency.html>

<http://www.techcoachcorner2.org/mathfacts.html>

<http://jmathpage.com/>