

ACADIENCE MATH

(Grades 2-5)



Students in Grade 2-5 are Globally assessed three times a year, using ACADIENCE Math. The assessment gives us a snapshot of students' math abilities in the areas of *Computation Fluency (Comp)* and *Concepts and Applications (CA)*. Below, you will find information about each measure.

We utilize our ACADIENCE Math data as a component to help us identify students who would benefit from Tiered Math Supports and/or Title 1 Math services.



ACADIENCE Math Measurements

(Grades 2-5)

Measure:	What Students Do:	Score:	Administration Time:
Computation Fluency (Comp)	Solve math computation problems, such as addition, subtraction, multiplication, division (based on grade level).	Number of items correctly answered (some answers are weighted, based on complexity)	4-12 minutes (depending on grade level and complexity)
Concepts & Applications (CA)	Understanding math concepts and vocabulary, and applying that knowledge to solving math problems.	Number of items correctly answered (some answers are weighted, based on complexity)	5-16 minutes (depending on grade level and complexity)



Computation Fluency

Overview

Level: Grades 2 through 5 (Fall, Winter, Spring)

Use: Benchmarking

Computation Fluency:

Assesses a student's ability to solve computation. Content reflects math expectations appropriate to each grade level. Because it is a timed measure, Computation Fluency can also measure the level of automaticity of these skills.

The student answers math items in relation to basic math computation concepts, such as addition, subtraction, multiplication, division. The student attempts as many items as possible (paper/pencil) in a given time span, based on grade level and complexity (4-12 minutes).

Each Computation form contains boxed math problems on 2 given forms (Form A and Form B).

Grade 3 Example:

$\begin{array}{r} 66 \\ +12 \\ \hline \end{array}$	$\begin{array}{r} 235 \\ +252 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ \times 1 \\ \hline \end{array}$	$\begin{array}{r} 23 \\ \times 3 \\ \hline \end{array}$
$\begin{array}{r} 14 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 127 \\ - 61 \\ \hline \end{array}$	$3 \overline{)9}$	$\begin{array}{r} 78 \\ -18 \\ \hline \end{array}$

Concepts & Applications

Overview

Level: Grades 2 through 5 (Fall, Winter, Spring)

Use: Benchmarking

Concepts & Applications:

A standardized measure designed to assess students' progress in the basic skills of understanding mathematical concepts and vocabulary and applying that knowledge to solve mathematical problems. Content reflects math expectations appropriate to each grade level.

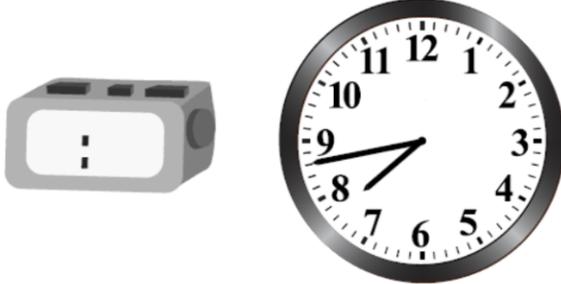
The student attempts as many items as possible (paper/pencil) in a given time span, based on grade level and complexity (5-16 minutes).

Each Concepts and Applications form (3 benchmarking) contains boxed math problems that assess a variety of math concepts and applications.

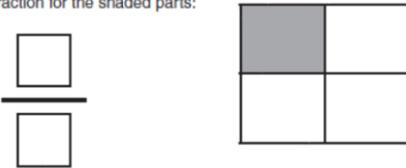
Note. Students are not allowed to use calculators.

Grade 3 Example:

1. Fill in the time on the digital clock:



2. Write the fraction for the shaded parts:



3. Round...

Number	...to the nearest 10	...to the nearest 100
559		
673		
771		
243		