Standard #: MAFS.4.OA.1.a

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Determine whether an equation is true or false by using comparative relational thinking. *For example, without adding 60 and 24, determine whether the equation 60 + 24 = 57 + 27 is true or false.*

General Information

Subject Area: Mathematics

Grade: 4

Domain-Subdomain: Operations and Algebraic Thinking

Cluster: Level 3: Strategic Thinking & Complex Reasoning

Cluster: Use the four operations with whole numbers to solve problems. (Major Cluster) -
Clusters should not be sorted from Major to Supporting and then taught in that order. To do so would strip the coherence of the mathematical ideas and miss the opportunity to enhance the major work of the grade with the supporting clusters.

Date Adopted or Revised: 02/14

Content Complexity Rating: Level 3: Strategic Thinking & Complex Reasoning - More Information

Date of Last Rating: 08/14

Status: State Board Approved

Assessed: Yes

Test Item Specifications

Assessed with: MAFS.4.OA.1b

Sample Test Items (1)

Test Item #: Sample Item 1
Question:
Which equation is true?

Difficulty: N/A
Type: MC: Multiple Choice

Related Courses

Course Number	Course Title
5012060:	Mathematics - Grade Four (Specifically in versions: 2014 - 2015, 2015 and beyond (current))
7712050:	Access Mathematics Grade 4 (Specifically in versions: 2014 - 2015, 2015 - 2018, 2018 and beyond (current))

Related Resources

Formative Assessments

Name	Description
True and False Multiplication Equations:	Students are asked to determine if each of two equations is true without performing any operations.
True and False Division Equations:	Students are asked to determine if each of two equations is true by comparing mathematical expressions and without actually carrying out the indicated calculations.
Determining If an Equation Is True:	Students are asked to determine if each of two equations involving subtraction is true by comparing mathematical expressions and without actually carrying out the calculations.

Are the Equations True?:	Students are asked to determine if each of two equations is true without performing any operations.

Lesson Plans

Name	Description
Can You Compare and Find the Missing Number In an Equation?:	Students will be able to compare and solve equations using comparative relational thinking. This lesson only addresses addition, not the other operations. Solving these equations will require the students to mentally evaluate to determine if it is true or false. The students will also determine the unknown number in some equations.
Is my equation TRUE or FALSE?:	In this lesson, students will determine if equations are true or false and justify their reasoning using relational thinking.