



Ohio's Learning Standards-Clear Learning Targets

Math Grade 1

1.OA.1

Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart and

comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem. [See Table 1, page 94.](#)

Essential Understandings

- Real-world mathematical situations can be represented using objects, drawings, and equations.
- An unknown can be in any position of a mathematical situation.

Common Misconceptions

Many children misunderstand the meaning of the equal sign. The equal sign means "is the same as" but most primary students believe the equal sign tells you that the "answer is coming up" to the right of the equal sign. This misconception is over-generalized by only seeing examples of number sentences with an operation to the left of the equal sign and the answer on the right. First graders need to see equations written multiple ways, for example $5 + 7 = 12$ and $12 = 5 + 7$. Students may believe that addition is always "put together" and subtraction is always "take away". By moving the unknown to a variety of positions, students will not be limited to this understanding. They will be able to solve for the change in numbers and the initial unknown.

Academic Vocabulary/Language

- part
- add
- whole
- equals =
- sum
- plus +
- number sentence
- subtract
- difference
- minus -

Tier 2

- solve
- compare
- represent

Learning Targets

I can solve word problems using addition and subtraction within 20.
I can solve four types of problems: add to, take from, put together/take apart, and compare with an unknown in any position.
I can solve problems using objects, drawings, and equations.

Darke County Esc Learning Targets For Math

Daniel F McAuley



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Mathematics Education Joseph Neal Payne, Frederick L. Goodman, 1965 **Planning for Better Schools** Miami University, Oxford, Ohio. Bureau of Educational Field Services, 1959 *Handbook of Research in Education Finance and Policy* Helen F. Ladd, Margaret E. Goertz, 2014-12-17 Sponsored by the Association for Education Finance and Policy AEFPP the second edition of this groundbreaking handbook assembles in one place the existing research based knowledge in education finance and policy with particular attention to elementary and secondary education Chapters from the first edition have been fully updated and revised to reflect current developments new policies and recent research With new chapters on teacher evaluation alternatives to traditional public schooling and cost benefit analysis this volume provides a readily available current resource for anyone involved in education finance and policy The Handbook of Research in Education Finance and Policy traces the evolution of the field from its initial focus on school inputs and revenue sources used to finance these inputs to a focus on educational outcomes and the larger policies used to achieve them Chapters show how decision making in school finance inevitably interacts with decisions about governance accountability equity privatization and other areas of education policy Because a full understanding of important contemporary issues requires inputs from a variety of perspectives the Handbook draws on contributors from a number of disciplines Although many of the chapters cover complex state of the art empirical research the authors explain key concepts in language that non specialists can understand This comprehensive balanced and accessible resource provides a wealth of factual information data and wisdom to help educators improve the quality of education in the United States **The 44th Civil Service Year Book** Great Britain: Cabinet Office, 2006 This is the 44th edition of this annual directory on the structure departments and key personnel of the UK Civil Service It contains information on ministerial responsibilities government departments and devolved administrations executive agencies and non departmental public bodies as well as a wide range of other organisations such as museums libraries galleries and research councils It also includes data on civil service salaries and staffing levels freedom of information purchasing and better quality service contracts and the charter mark scheme Indexes are given by individual officers department and subject Ohio Educational Directory , 2005 **Civil Service Year Book** Cabinet Office Staff, 2003 **Facets of the Teacher Development Program** , 1981 The Journal of Education , 1906 Impacts Robert J. Mertz, 1983 **Australian Books in Print** , 1975

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