


# MATH GAME

## DISTRIBUTIVE PROPERTY



2	4	9	7	10
1	6	3	5	8
3	8	7	10	9
2	9	6	1	2
5	10	3	7	4
8	4	1	6	5

$$4(x + 2) = 48$$

S.

$$3(2x + 5)$$

$$6(x - 1) = 48$$

Q

$$2(2x - 3) = 30$$

46 CARDS = 92 PROBLEMS

# Distributive Property Game

**Merlin Maurice Ohmer, Clayton V.  
Aucoin, Marion J. Cortez**



## **Distributive Property Game:**

*Number Game 7*, Teaching the Common Core Math Standards with Hands-On Activities, Grades 6-8 Judith A. Muschla, Gary R. Muschla, Erin Muschla, 2012-04-10 Helpful advice for teaching Common Core Math Standards to middle school students The new Common Core State Standards for Mathematics have been formulated to provide students with instruction that will help them acquire a thorough knowledge of math at their grade level which will in turn enable them to move on to higher mathematics with competence and confidence Hands on Activities for Teaching the Common Core Math Standards is designed to help teachers instruct their students so that they will better understand and apply the skills outlined in the Standards This important resource also gives teachers a wealth of tools and activities that can encourage students to think critically use mathematical reasoning and employ various problem solving strategies Filled with activities that will help students gain an understanding of math concepts and skills correlated to the Common Core State Math Standards Offers guidance for helping students apply their understanding of math concepts and skills develop proficiency in calculations and learn to think abstractly Describes ways to get students to collaborate with other students utilize technology communicate ideas about math both orally and in writing and gain an appreciation of the significance of mathematics to real life This practical and easy to use resource will help teachers give students the foundation they need for success in higher mathematics Number Game 6 Khurana Rohit, 2007-09 Basic Math for Game Development with Unity 3D Kelvin Sung, Gregory Smith, 2019-12-05 Use Unity based examples to understand fundamental mathematical concepts and see how they are applied when building modern video game functionality You will gain the theoretical foundation you need and you will know how to examine and modify an implementation This book covers points in a 3D Cartesian coordinate system and then discusses vectors and the details of dot and cross products Basic mathematical foundations are illustrated through Unity based example implementations Also provided are examples showing how the concepts are applied when implementing video game functionality such as collision support motion simulations autonomous behaviors shadow approximations and reflection off arbitrary walls Throughout this book you learn and examine the concepts and their applications in a game engine What You Will Learn Understand the basic concepts of points and vectors and their applications in game development Apply mathematical concepts to modern video game functionality such as spherical and box colliders Implement autonomous behaviors including following way points facing a target chasing an object etc Who This Book is For Beginners and those interested in the implementation of interactive games who need a basic mathematical background or a refresher with modern examples *Finite Mathematics, from Sets to Game Theory* Adelbert F. Hackert, 1974 **Algebra for Athletes** Cameron Bauer, 2007 Capitalises on the wealth of mathematical knowledge students already possess because of their familiarity with the scorekeeping and motion in sports In this way the book takes advanced concepts such as exponents vector multiplication and the unit circle to relate them to students everyday lives While the book is meant to appeal to

students who might not otherwise choose to study algebra it employs highly challenging material much of which is not taught until engineering school Thus the book also provides a window to the professional world Applications in accounting aeronautical engineering civil engineering and other fields are presented along with the sports examples *Elementary Contemporary Mathematics* Merlin Maurice Ohmer, Clayton V. Aucoin, Marion J. Cortez, 1972 **Everyday Mathematics**, 2004 Contains comprehensive background information about mathematical content and program management This manual familiarizes teachers with the program s features routines and provides ideas for organizing and implementing the curriculum Algebra 1 Collins Publishers Staff, William Collins, Gilbert J. Cuevas, Russell J. Foster, Gordon Staff, Moore-Harris, Rath, William L. Swart, Winters, 1998 **Conceptual Understanding of Multiplicative Properties Through Endogenous Digital Game Play** Andre Denham, 2012 This study purposed to determine the effect of an endogenously designed instructional game on conceptual understanding of the associative and distributive properties of multiplication Additional this study sought to investigate if performance on measures of conceptual understanding taken prior to and after game play could serve as predictors of game performance Three versions of an instructional game Shipping Express were designed for the purposes of this study The endogenous version of Shipping Express integrated the associative and distributive properties of multiplication within the mechanics while the exogenous version had the instructional content separate from game play A total of 111 fourth and fifth graders were randomly assigned to one of three conditions endogenous exogenous and control and completed pre and posttest measures of conceptual understanding of the associative and distributive properties of multiplication along with a questionnaire The results revealed several significant results 1 there was a significant difference between participants change in scores on the measure of conceptual understanding of the associative property of multiplication based on the version of Shipping Express they played Participants who played the endogenous version of Shipping Express had on average higher gains in scores on the measure of conceptual understanding of the associative property of multiplication than those who played the other versions of Shipping Express 2 performance on the measures of conceptual understanding of the distributive property collected prior to game play were related to performance within the endogenous game environment and 3 participants who played the control version of Shipping Express were on average more likely to have a negative attitude towards continuing game play on their own compared to the other versions of the game No significant differences were found in regards to changes in scores on the measure of conceptual understanding of the distributive property based on the version of Shipping Express played post hoc pairwise comparisons and changes on scores on question types within the conceptual understanding of the associative and distributive property of multiplication measures The findings from this study provide some support for a move towards the design and development of endogenous instructional games Additional implications for the learning through digital game play and future research directions are discussed **Algebra 1**, 2003 **McDougal Littell Pre-Algebra**, 2004-01-27 **Algebra 1**

Foster, McGraw-Hill/Glencoe, 1996-04-08 A beginning algebra textbook      **Prentice Hall Algebra: Algebraic concepts and simple equations**, 1998      **Passport to Algebra and Geometry** Christine A. Hoover, Holt McDougal, 2004

**Teaching and Learning Mathematics** Linda Jensen Sheffield, Douglas E. Cruikshank, 2004-03-29 Help students make sense of mathematics Rather than merely discussing how to improve students ability to do mathematics this fifth edition focuses on helping them make sense of mathematics Based on research on the functioning of the mind as it engages in learning the text supports teachers as they promote mathematical understanding strengthen students abilities to think and help students to attain computational fluency Features A rich collection of ready to use learning activities Fully integrated language and intent of Principles and Standards for School Mathematics PSSM A greater emphasis on problem solving and higher level thinking A greater focus on teaching mathematics to diverse learners Descriptions of a variety of promising and effective mathematics programs for the K 8 levels      **Investigations in Number, Data, and Space**, 2008 Part of a K 5 mathematics curriculum with curriculum units for classroom use and resources for teachers the Investigations curriculum was developed at TERC formerly Technical Education Research Centers      **Instructional Aids in Mathematics** National Council of Teachers of Mathematics, 1973      **Yearbook** National Council of Teachers of Mathematics, 1973

**Introductory Algebra, Instructor's Resource Manual** Patricia L. Hooper, 1983

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