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one of the most commonly asked questions in a mathematics classroom is will i ever use this stuff in real life some teachers can give a good convincing answer others hem and haw and stare at the floor the real response to the question should be yes you will because algebra gives you power the power to help your children with their math homework the power to manage your finances the power to be successful in your career especially if you have to manage the company budget the list goes on algebra is a system of mathematical symbols and rules that are universally understood no matter what the spoken language algebra provides a clear methodical process that can be followed from beginning to end to solve complex problems there s no doubt that algebra can be easy to some while extremely challenging to others for those of you who are challenged by working with numbers algebra i for dummies can provide the help you need this easy to understand reference not only explains algebra in terms you can understand but it also gives you the necessary tools to solve complex problems but rest assured this book is not about memorizing a bunch of meaningless steps you find out the whys behind algebra to increase your understanding of how algebra works in algebra i for

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in this book two ethical systems are described in the language of mathematics ordinarily mathematics is thought to be a science of quantity indeed manipulation of quantities constitutes much of mathematics elementary applied mathematics deals with reckoning and measurement where concrete quantities are objects of attention such as counting sheep or weighing corn but the operations on these quantities are performed with the help of symbols from which concrete referents have been abstracted out 3 5 8 regardless of whether the symbols stand for numbers of sheep or tons of corn thus the first principle that exhibits the power of mathematics is abstraction it is one of the three pillars on which the edifice of mathematics rests another pillar is precision ordinarily man communicates by words words serve communication to the extent that they refer to things events states of affairs feelings of the speaker and so on these are the meanings attributed to words communication is successful to the extent that the meanings coded upon words by the speaker correspond to the meanings decoded by the hearer as is well known the degree of this correspondence varies enormously in different contexts of discourse and with the backgrounds or attitudes of the speakers and hearers mathematics is a language in which the meanings of the symbols the words of this language are absolutely precise this precision is achieved by abstraction abstract terms are defined by their relations to other terms and by nothing else

algebra in the elementary classroom provides the support we need as teachers to embed the development of students algebraic thinking in the teaching of elementary school math Megan Loef Franke coauthor of *Children's Mathematics and Thinking Mathematically* how do you start students down the road to mathematical understanding by laying the

foundation for algebra in the elementary grades algebra and the elementary classroom shares ideas tasks and practices for integrating algebraic thinking into your teaching through research based and classroom tested strategies it demonstrates how to use materials you have on hand to prepare students for formal algebra instruction without adding to your overstuffed curriculum you ll find ways to introduce algebraic thinking through familiar arithmetical contexts nurture it by helping students think about represent and build arguments for their mathematical ideas develop it by exploring mathematical structures and functional relationships strengthen it by asking students to make algebraic connections across the curriculum reinforce it across the grades through a schoolwide initiative no matter what your math background is algebra and the elementary classroom offers strong support for integrating algebraic thinking into your daily teaching its clear descriptions show you what algebraic thinking is and how to teach it its sample problems deepen your own algebraic thinking best of all it gives you ideas for grade specific instructional planning read algebra and the elementary classroom and prepare your students for a lifetime of mathematical understanding

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