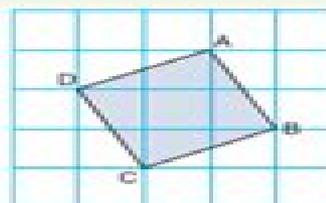


Since 20 is not a square number, we cannot write $\sqrt{20}$ as a whole number. In Lesson 1.4, you will learn how to find an approximate value for $\sqrt{20}$ as a decimal.

Example 2 illustrates another way to find the area of a square with its vertices where grid lines meet.

Example 2

- Find the area of square ABCD.
- What is the side length AB of the square?



A Solution

- Draw an enclosing square JKLM.
The area of JKLM = 3^2 square units
= 9 square units

The triangles formed by the enclosing square are congruent.

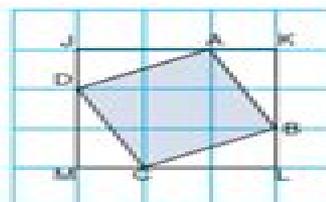
Each triangle has area:

$$\frac{1}{2} \times 1 \text{ unit} \times 2 \text{ units} = 1 \text{ square unit}$$

So, the 4 triangles have area:

$$4 \times 1 \text{ square unit} = 4 \text{ square units}$$

$$\begin{aligned} \text{The area of ABCD} &= \text{Area of JKLM} - \text{Area of triangles} \\ &= 9 \text{ square units} - 4 \text{ square units} \\ &= 5 \text{ square units} \end{aligned}$$



- So, the side length $AB = \sqrt{5}$ units.

Discuss the ideas

- Is the area of every square a square number?
- When will the length of a line segment not be a whole number?

Math Makes Sense Pro Guide

Judd E. Hollander



Math Makes Sense Pro Guide:

ENC Focus, 2001 The Special Education Sourcebook Michael S. Rosenberg, Irene Edmond-Rosenberg, 1994 This resource guide will help special education and general education teachers working with children with developmental emotional physical and learning disabilities The sources described within can help them to understand and assess their students special learning needs and to learn about the most appropriate teaching approaches and strategies **Better Schools**, 1957 Resources in Education, 1997 Helping Children Learn Mathematics Robert E. Reys, Mary Lindquist, Diana V. Lambdin, Nancy L. Smith, 2008-12-15 The ninth edition of this best selling elementary math methods textbook continues the rich history of this book with a dash of new breath and a new contemporary design It has been updated to reflect current recommendations readings and practices while maintaining the characteristics and features that have made it a popular choice of instructors This new edition remains an invaluable text for students who are being introduced to teaching elementary mathematics In addition its depth also makes it appropriate for teachers to use as they continue to learn about teaching mathematics Publsiher s website **Scott Foresman-Addison Wesley Middle School Math**, 2002 The Education Digest, 1967 The editorial aim is to present condensations of articles taken from the leading professional and lay publications **Christian Home Educators' Curriculum Manual** Cathy Duffy, 1995 The premiere guide for choosing homeschool curriculum For beginners or veterans Cathy helps you wade through the curriculum jungle to choose what s right for each of your children Reviews of hundreds of books games videos computer programs parent helps and much much more for all subjects Learning styles Cathy helps you determine each child s learning style then choose methods and resources that fit each child What your child needs to know what is typically taught at each grade level Which resources allow your children to work independently which work best taught one on one Identifying and dealing with learning disabilities plus a list of consultants for extra help Testing the good and bad of testing different kinds of tests where to get them testing services Addresses phone numbers faxes e mail and web sites for all publishers and distributors How to consolidate your shopping and save shipping costs **Mathematics Teaching Today** Terese Herrera, 2007 Mathematics Teaching Today Improving Practice Improving Student Learning Second Edition updates the NCTM groundbreaking publication Professional Standards for Teaching Mathematics first published in 1991 Like the original this updated volume articulates a vision for effective mathematics teaching and describes the support systems that are required to achieve that vision This book delineates Standards for various aspects of the teaching profession including teachers practise professional supervision collegial interaction and career long professional growth However more than curriculum standards documents are needed to improve student learning and achievement Teaching matters Therefore exploring what goes on in mathematics classrooms is essential to identifying issues and looking for opportunities for improvement Principles and Standards for School Mathematics provides a framework for professional practise that supports the NCTM s vision of more and better

mathematics for all children This book expounds on that framework explicating the roles of teachers supervisors teacher educators mathematicians professional developers parents politicians community members and others in improving the teaching and learning of mathematics The Standards offer a vision for high quality mathematics teaching and support structures for teachers What matters in the long run however is how classrooms across North America are transformed and how teaching practises evolve to address the mathematical learning needs of children *El-Hi Textbooks & Serials in Print, 2003 ,2003* **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 Teaching Mathematics Meaningfully David H. Allsopp,David Allsopp,Maggie M. Kyger,LouAnn H. Lovin,2007 Making mathematics concepts understandable is a challenge for any teacher a challenge that s more complex when a classroom includes students with learning difficulties With this highly practical resource educators will have just what they need to teach mathematics with confidence research based strategies that really work with students who have learning disabilities ADHD or mild cognitive disabilities This urgently needed guidebook helps teachers Understand why students struggle Teachers will discover how the common learning characteristics of students with learning difficulties create barriers to understanding mathematics Review the Big Ideas Are teachers focusing on the right things A helpful primer on major NCTM endorsed mathematical concepts and processes helps them be sure Directly address students learning barriers With the lesson plans practical strategies photocopiable information gathering forms and online strategies in action teachers will have concrete ways to help students grasp mathematical concepts improve their proficiency and generalize knowledge in multiple contexts Check their own strengths and needs Educators will reflect critically on their current practices with a thought provoking questionnaire With this timely book filled with invaluable ideas and strategies adaptable for grades K 12 educators will know just what to teach and how to teach it to students with learning difficulties *Elementary and Middle School Mathematics* John A. Van de Walle,2004 World Windows introduces young learners to essential themes and concepts in Science and Social Studies through National Geographic photography and content Using non fiction readings World Windows helps to develop young learnerse tm fluency in English and ignites their curiosity about the world around them Once Upon a GEMS Guide Jacqueline Barber,1993 Contains literature based activities linked to various GEMS publications *Webster's New International Dictionary of the English*

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