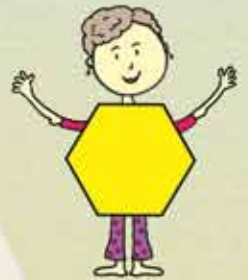


The Shape Family Babies



by Kristin Haas

illustrated by Shennen Bersani

The Shape Family Babies



Mr. and Mrs. Shape are expecting a baby, but they are surprised when three arrive! The first is just like Mother Rhombus, the other just like Father Rectangle, but what to name the third? Go on a geometry naming adventure as all the shape family relatives weigh in. Will Cousin Triangle, Aunt Hexagon or Grandma Rhombus have the right angle?

It's so much more than a picture book . . . this book is specifically designed to be both a fun-to-read story and a launch pad for discussions and learning. We encourage adults to do the activities with the young children in their lives both at home and in the classroom. Free online resources and support at www.ArbordalePublishing.com include:

- For Creative Minds as seen in the book (in English & Spanish):
 - Shape Parts
 - Quadrilaterals
 - Name that Shape!
- Teaching Activities (to do at home or school):
 - Reading Questions
 - Math
 - Language Arts
- Interactive Quizzes: Reading Comprehension, For Creative Minds, and Math Word Problems
- English and Spanish Audiobooks
- Related Websites
- Aligned to State, Common Core & NGSS Standards
- Accelerated Reader & Reading Counts! Quizzes
- Lexile and Fountas & Pinnell Reading Levels

eBooks with Auto-Flip, Auto-Read, and selectable English and Spanish text and audio are available for purchase online.

Thanks to Rachel Hilchey, elementary math teacher with Hallsville ISD (TX), for verifying the accuracy of the information in this book.

Kristin Haas is a third grade teacher with a Masters in Elementary Education. As a teacher, she sees how books inspire learning and engage the minds of young readers. Kristin hopes this book will encourage young math fans at home and in classrooms to learn about the many kinds of geometric shapes. This is her debut picture book. Kristin lives in Newburgh, New York with her family. Visit her website at kristinsisthaas.blogspot.com.

Award-winning children's book illustrator **Shennen Bersani** has two million copies of her illustrated books cherished and read by children and families throughout the world. She uses various drawing and painting materials and techniques to bring life to her illustrations. For this book, she used a Wacom Cintiq Pen Display where brush strokes of many sizes and colors are created with a digital pen on a flat screen glass display. In addition to *The Shape Family Babies*; *Sea Slime: It's Eeuwy, Gooey and Under the Sea*; *Shark Baby*; *Home in the Cave*; *The Glaciers are Melting!*, and *Astro: The Steller Sea Lion* for Arbordale, Shennen has illustrated a number of best-selling books, including, *Snakes: Long, Longer, Longest*; *Sharks: Big, Bigger, Biggest*; *Ocean Counting: Odd Numbers*; *Icky Bug Shapes*; and *Butterfly Colors and Counting*. Shennen lives with her family near Boston. For more information, visit her website at shennenbersani.com.

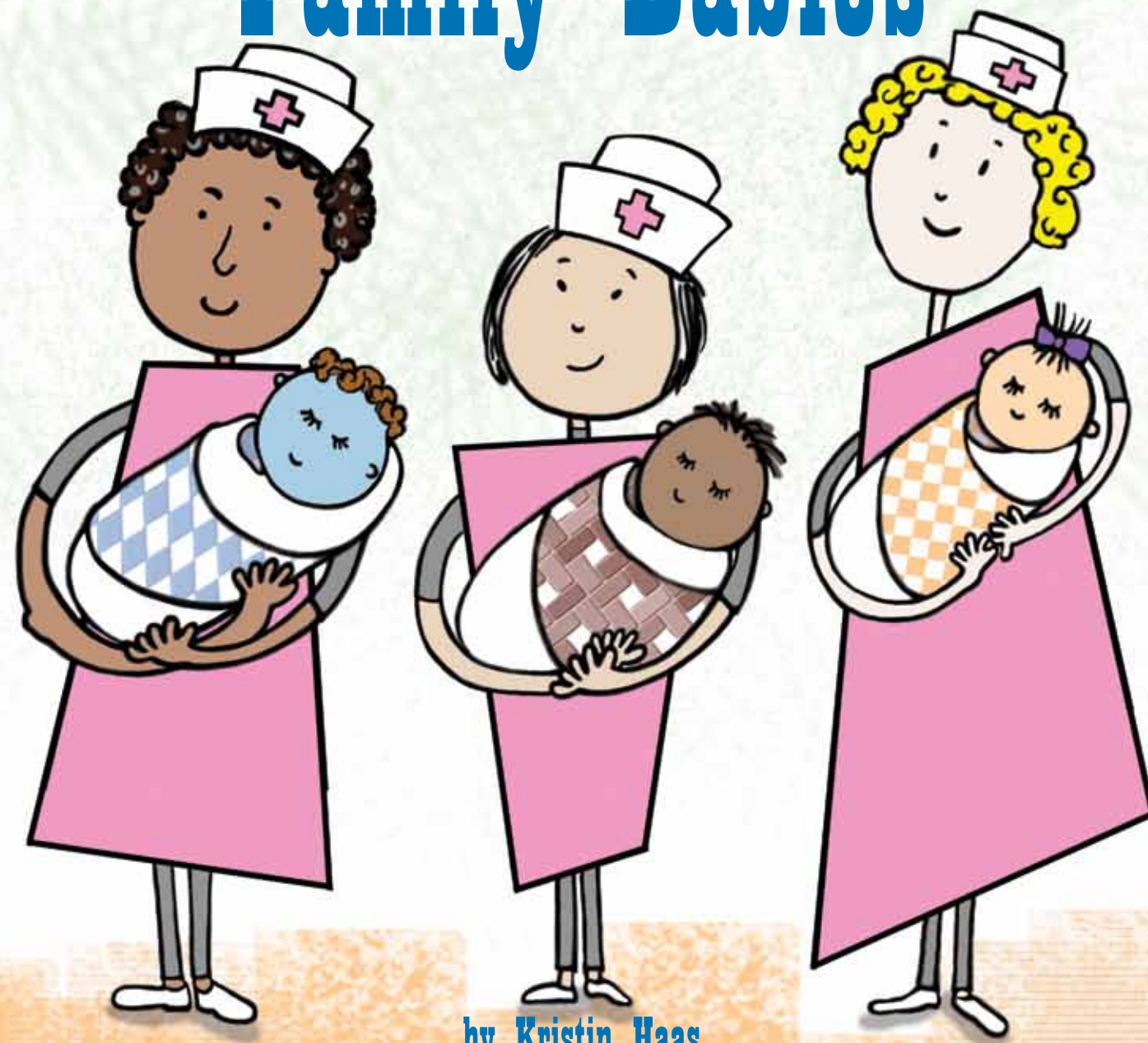


Kristin Haas



Shennen Bersani

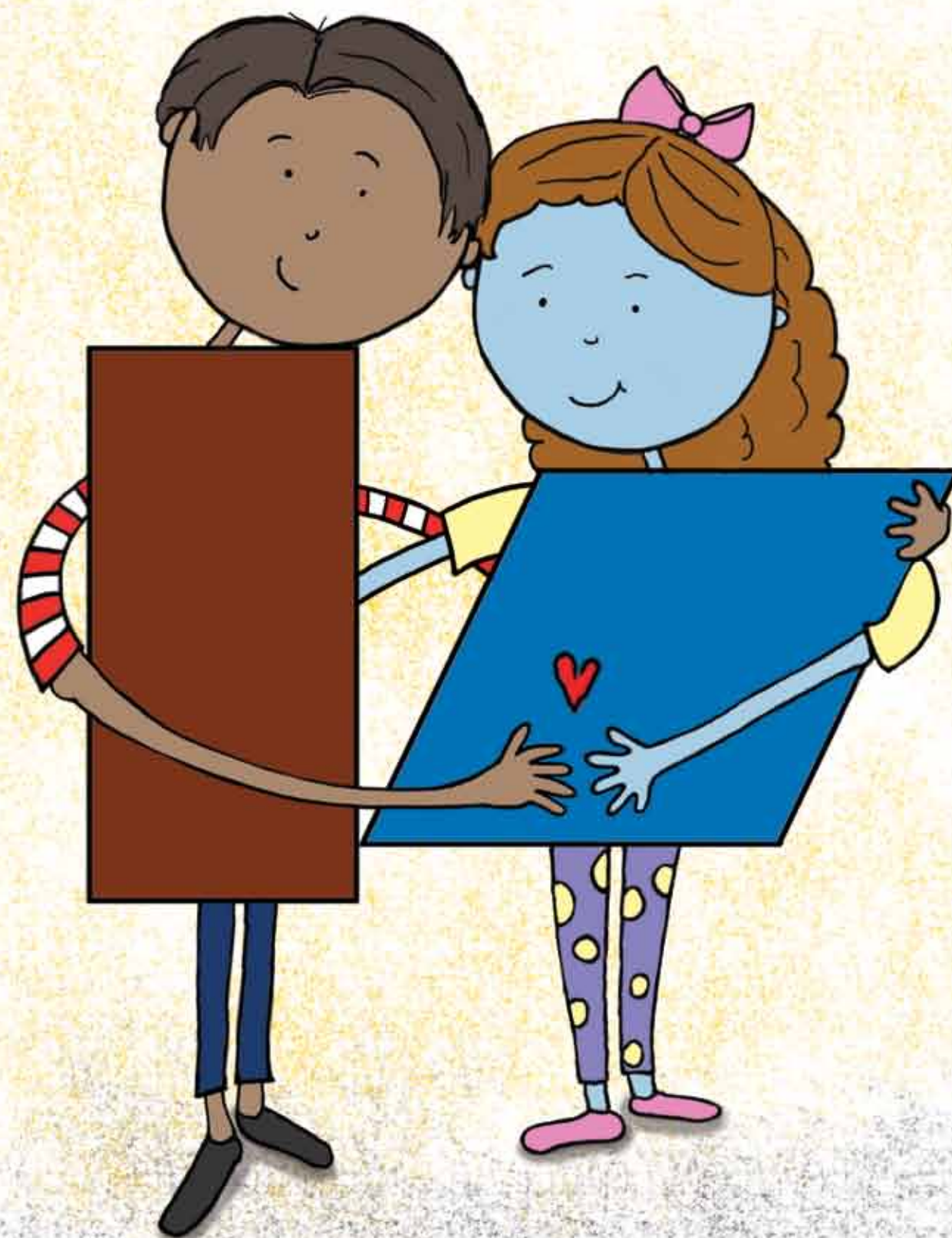
The Shape Family Babies



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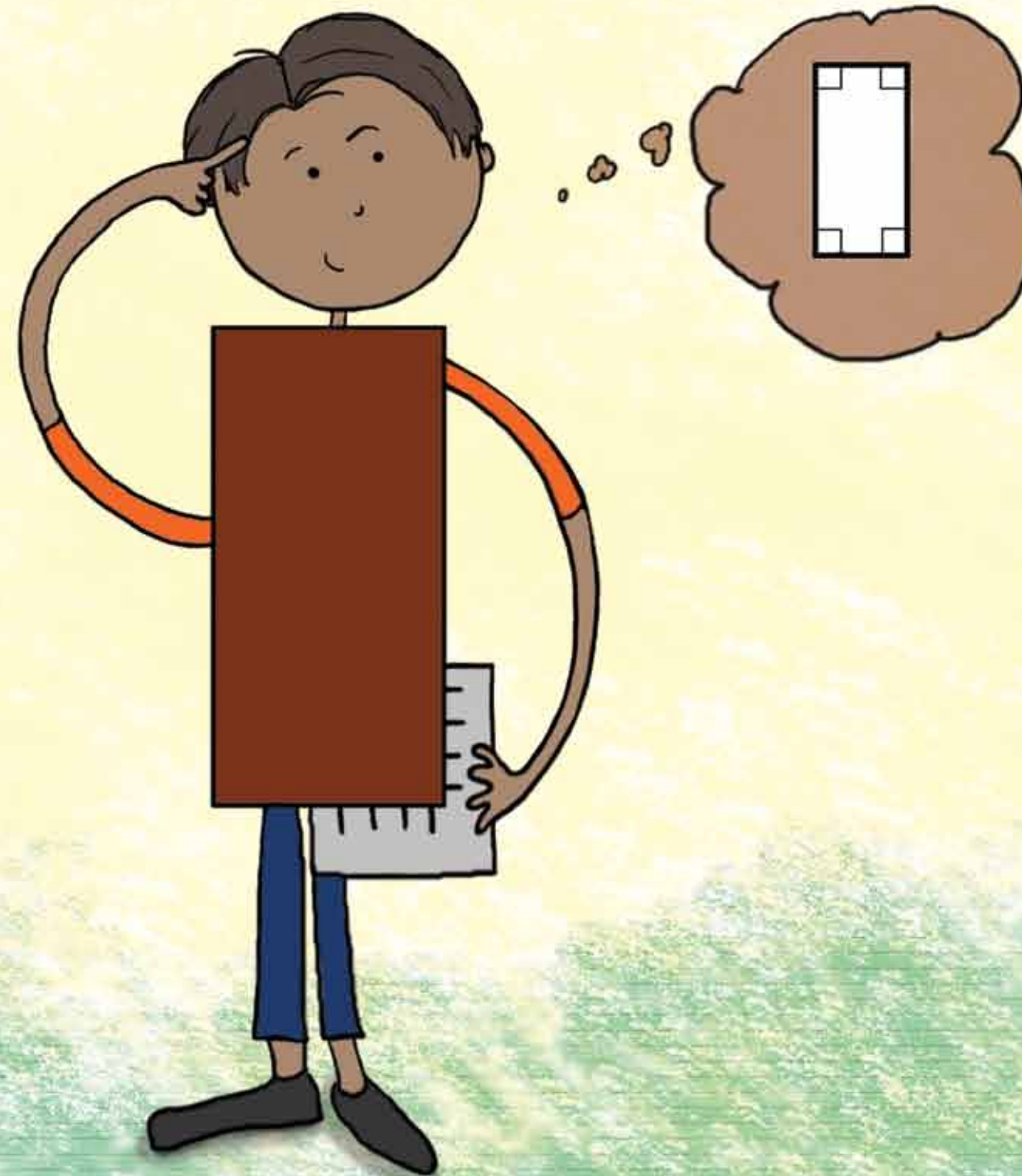
illustrated by Shennen Bersani

Once upon a time, a rectangle and a rhombus fell in love.
They married and soon were expecting their first child.



Each parent wondered whom
the baby would look like.
Would the baby have four equal
sides like Mother Rhombus?

Would the baby have four right
angles like Father Rectangle?

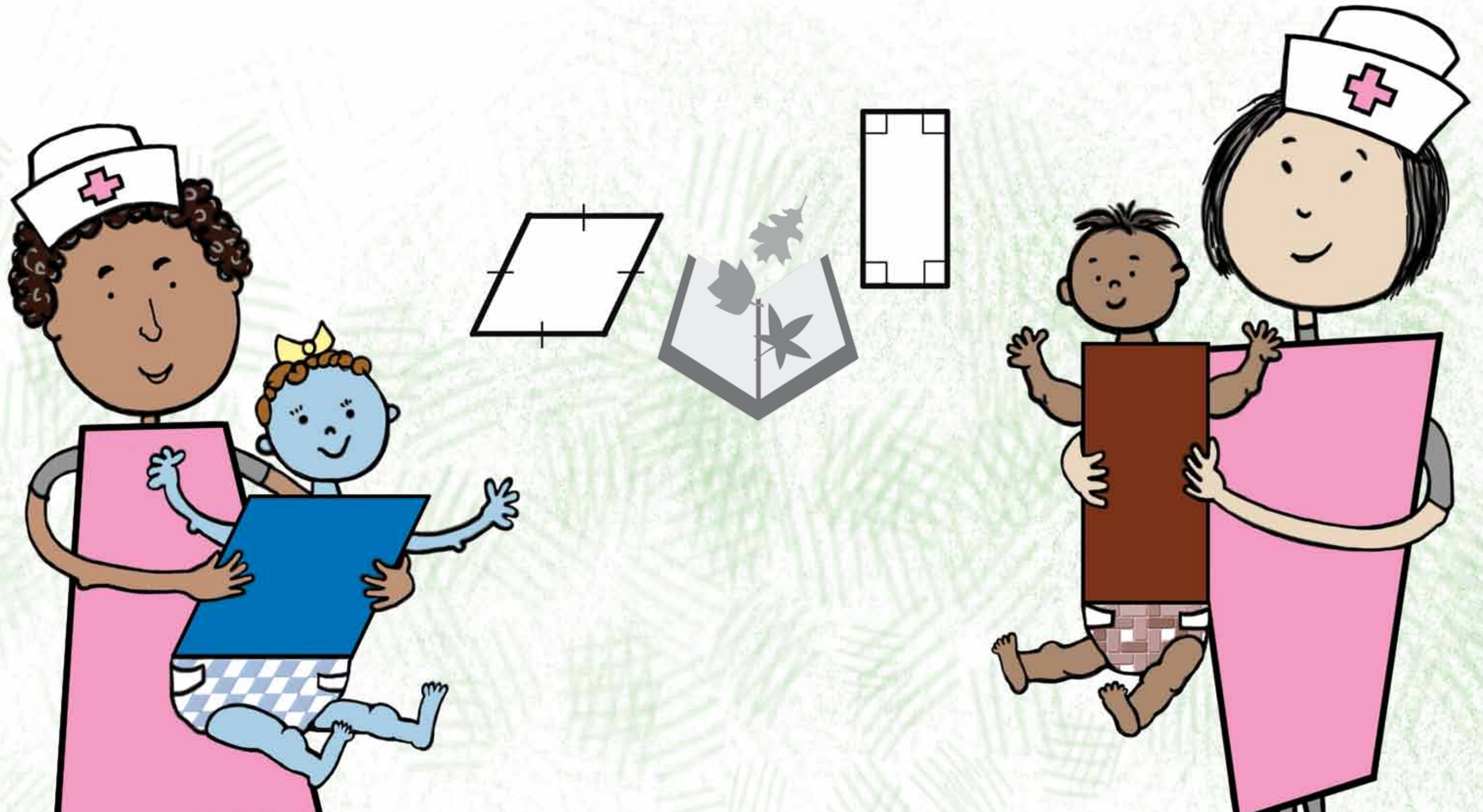


They waited and waited. Finally the day arrived, and there was not one, not two, but three beautiful children.



The first had all equal sides like Mother Rhombus, and she was named Rhombus Jr.

The second had four right angles like Father Rectangle, and he was named Rectangle Jr.

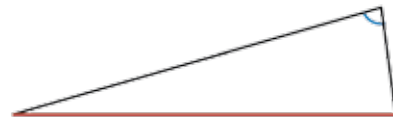


For Creative Minds

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Shape Parts

All of the shapes in this book are polygons. Polygons are two-dimensional shapes. They have length and width, but no height. Polygons are made of straight **lines** and **angles**. Polygons are closed shapes—each line ends where another begins.



When all of the angles are equal and all of the sides are the same length, it is called a **regular** shape.



If the angles are different and the sides are uneven, the shape is **irregular**.

There are three basic kinds of angles. If the angle measures exactly 90° , it is a **right** angle. If the angle is less than 90° , it is an **acute** angle. If it is more than 90° , it is an **obtuse** angle.

Angles are measured with a tool called a **protractor**.



acute angle

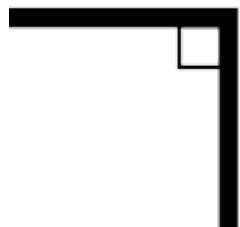


obtuse angle



right angle

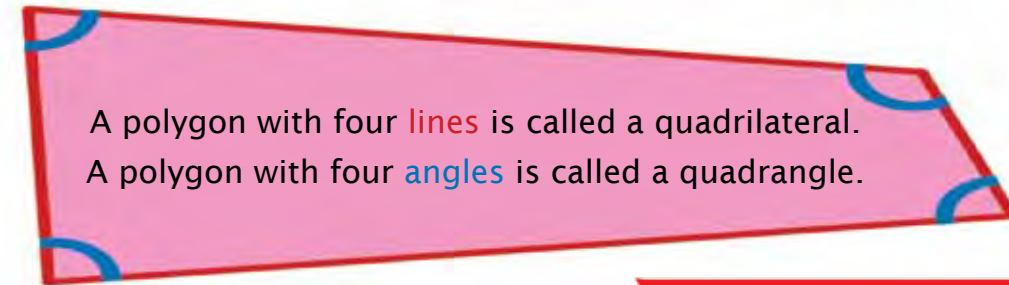
When two lines meet at a right angle, the lines are called **perpendicular**.



Sometimes lines in a shape are **parallel**. Parallel lines are always the same distance apart. They never touch and they never get closer to or farther away from each other.



Quadrilaterals



A polygon with four **lines** is called a quadrilateral.
A polygon with four **angles** is called a quadrangle.

A quadrangle with exactly one pair of parallel sides is called a trapezoid. A trapezoid is a kind of polygon, a quadrilateral, and a quadrangle.

A quadrilateral that has two pairs of parallel sides is a parallelogram. A parallelogram is a type of polygon, a quadrilateral, and a quadrangle.

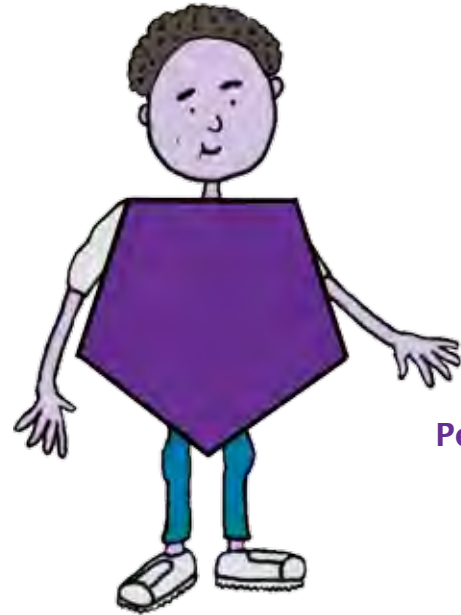
A parallelogram with all equal sides is a rhombus. A rhombus is a type of polygon, a quadrilateral, a quadrangle, and a parallelogram.

A parallelogram with all right angles is called a rectangle. A rectangle is a kind of polygon, a quadrilateral, a quadrangle, and a parallelogram.

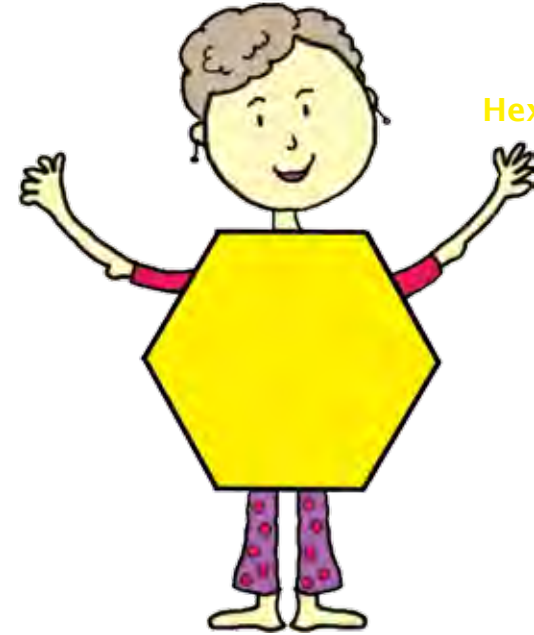
A quadrilateral with all equal sides and all right angles is a square. A square is a certain type of polygon, a quadrilateral, a quadrangle, a parallelogram, a rhombus and a rectangle.

Name that Shape!

Match the description to the shape.



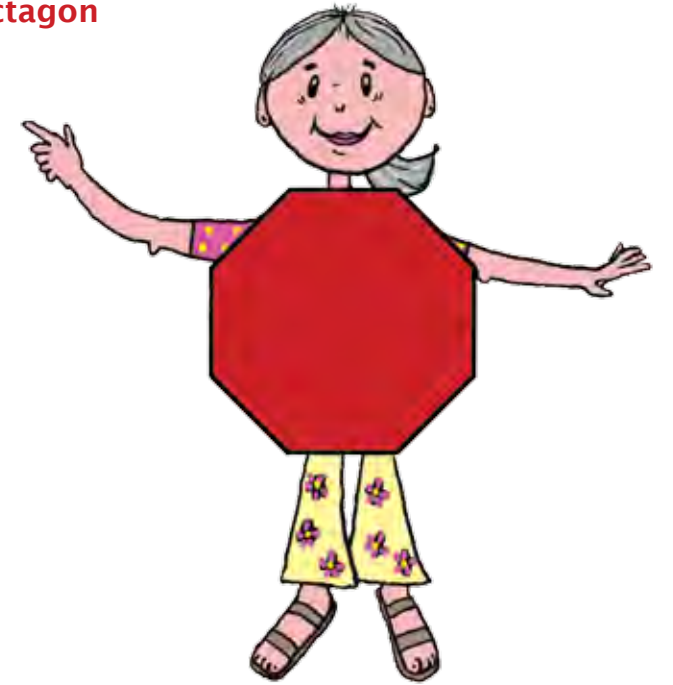
Pentagon



Hexagon

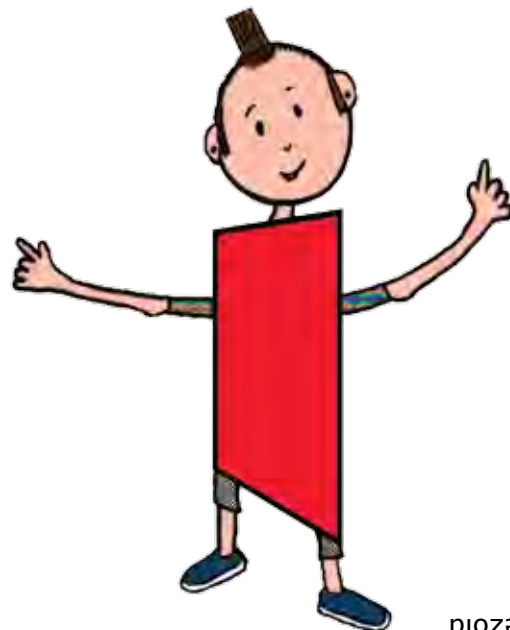


Triangle



Octagon

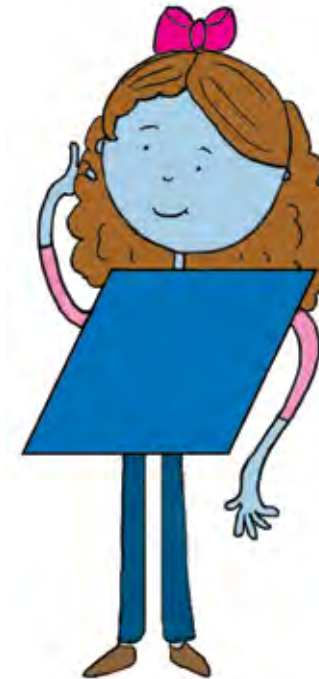
1. This shape is made of six lines that meet to create six angles.
2. Four right angles and four straight lines make this shape. The four sides can be all equal length or it can have two pairs of lines that are different lengths.
3. This shape has five sides.
4. This shape has four sides. It has one pair of parallel sides, but its other two sides are not parallel.



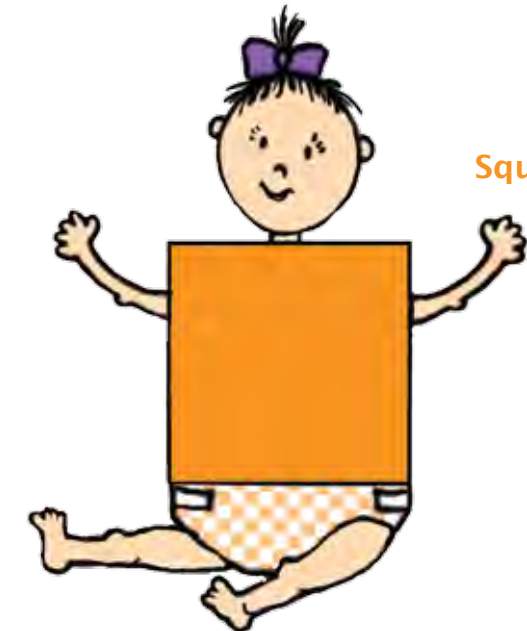
Trapezoid



Rectangle



Rhombus



Square

5. This four-sided shape is a parallelogram made of two pairs of parallel lines. All sides are the same length. The angles can be all right angles, but they don't have to be.
6. Eight sides join together to create this shape.
7. This shape is a kind of rectangle. It has four equal sides and four right angles. It is also a kind of rhombus. Each of the sides is parallel to another side.
8. This shape is made of three angles and three lines.

Answers: 1-hexagon, 2-rectangle, 3-pentagon, 4-trapezoid

Answers: 5-rhombus, 6-octagon, 7-square, 8-triangle

To "squares" like me who know that math can be fun.—KH

To David Brewster who guided all four of my children with his dedication to teaching.—SB

Thanks to Rachel Hilchey, elementary math teacher with Hallsville ISD (TX), for verifying the accuracy of the information in this book.

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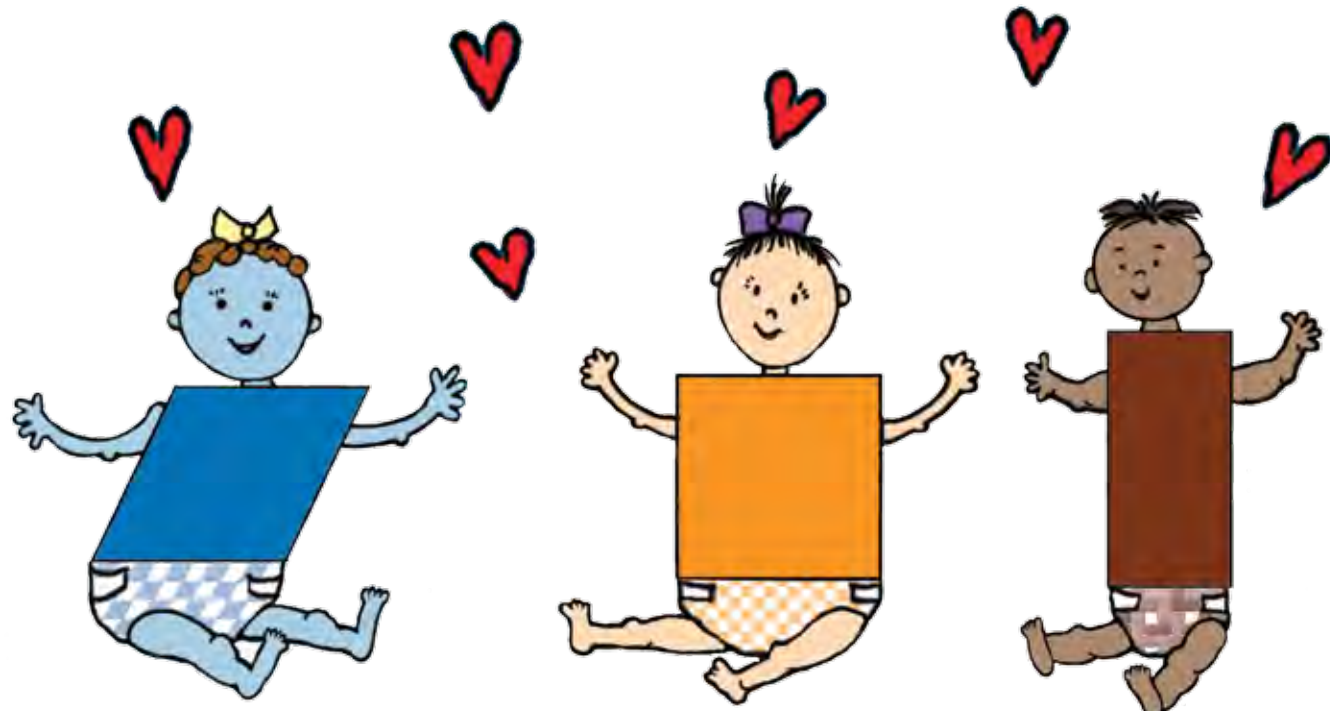
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