

TACTILE TREASURES

Math and Language Concepts for
Young Children with Visual Impairments
Tactile/Color Edition

Guidebook

Product Designer/Author
Karen J. Poppe
Tactile Graphics Project Leader

Model/Pattern Maker
Tom Poppe

Copyright © 2012
All Rights Reserved



American Printing House for the Blind, Inc.
1839 Frankfort Avenue

Mailing Address:

P.O. Box 6085 • Louisville, KY 40206-0085
Phone: 502-895-2405 • Toll Free: 800-223-1839

Fax: 502-899-2274 • E-mail: info@aph.org

Web site: www.aph.org

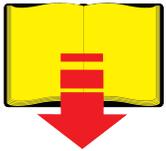
Shopping: <http://shop.aph.org>

Kit Catalog No. 1-08842-01

Tactile Treasures



In keeping with our philosophy to provide access to information for people who are blind or visually impaired, the American Printing House for the Blind provides an electronic version of this book for large print and braille readers.



Free downloadable files of the print guidebook, braille guidebook, and Checklist of Concepts are available at <http://www.aph.org/manuals/index.html>

Catalog Number 1-08842-01

Copyright © 2012,
American Printing House for the Blind, Inc.

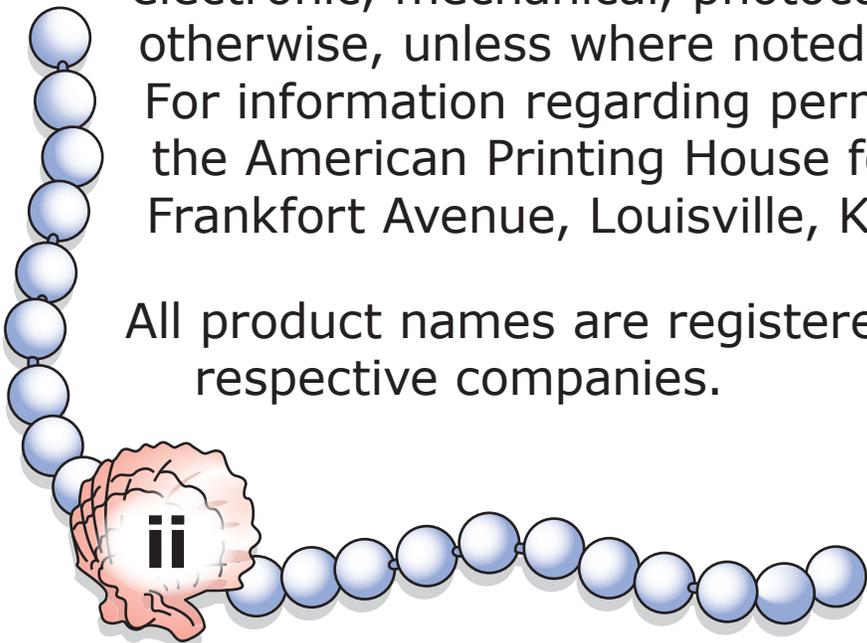
All rights reserved.

Printed in the United States of America.

This publication is protected by Copyright and permission should be obtained from the publisher prior to any reproduction, storage in a retrieval system, or transmission in any form or by any means electronic, mechanical, photocopying, recording, or otherwise, unless where noted on specific pages.

For information regarding permission, write to the American Printing House for the Blind, 1839 Frankfort Avenue, Louisville, KY 40206-0085.

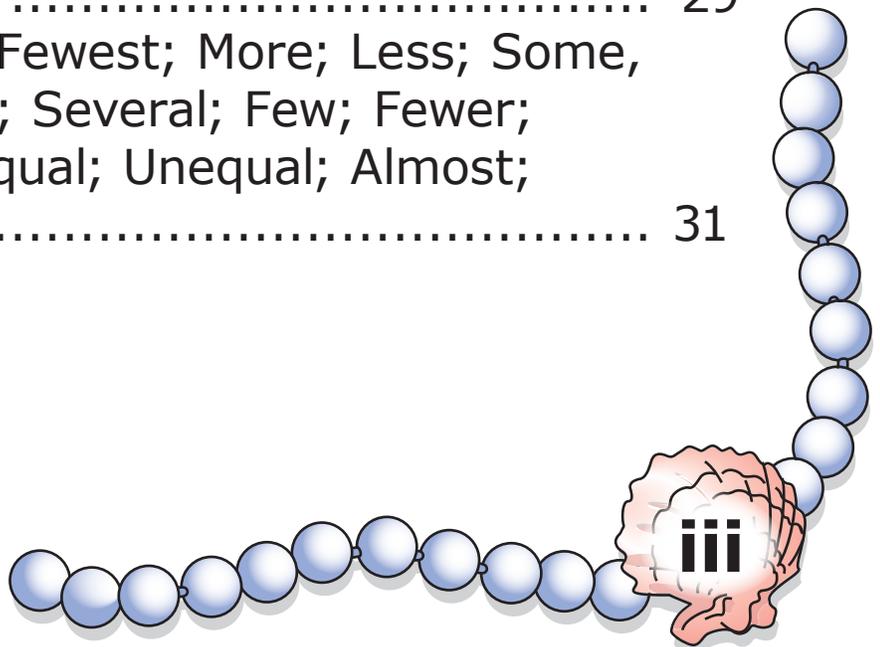
All product names are registered trademarks of their respective companies.



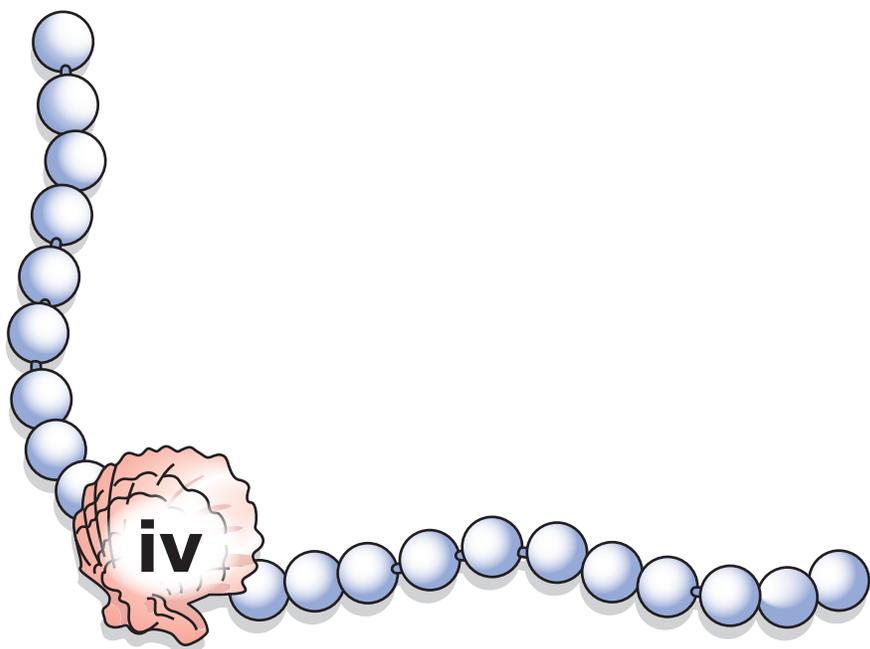
Tactile Treasures

TABLE OF CONTENTS

INTRODUCTION	1
Overview of Materials	1
Instructions for Use.....	1
Extended Activities.....	3
CONCEPT CATEGORIES	
Shape [Binder 1]	7
Circle; Square; Triangle; Rectangle; Oval; Star; Heart; Diamond; Straight; Curved; Underlined; X (shape)	9
Size [Binder 1]	15
Smaller/-est; Larger/-est; Bigger/-est; Medium-sized; Longer/-est; Shorter/-est; Taller/-est; Thinner/-est; Wider/-est; Fatter/-est	17
Comparison [Binder 2]	23
Same; Different; Alike; Match; With; Without; Other	25
Amount [Binder 2]	29
Many; Most; Least/Fewest; More; Less; Some, Not Many; As Many; Several; Few; Fewer; Every; All; None; Equal; Unequal; Almost; Half; Whole; Pair	31



Position [Binder 3]	39
Inside; Outside; Around; Over; Above; Under; Below; Between; Through; Away From; Next To; Beside; Nearest; Farthest; Separated; Top; Bottom; Upside Down; Right; Left; Center; Middle; Row; Line; First; Second; Third; Last; Beginning; End	41
Pre-Reading [Binder 3]	51
Top; Bottom; Side; Left; Right; Center; Middle; Corner; Front; Back	53
CHECKLIST OF CONCEPTS	55



INTRODUCTION

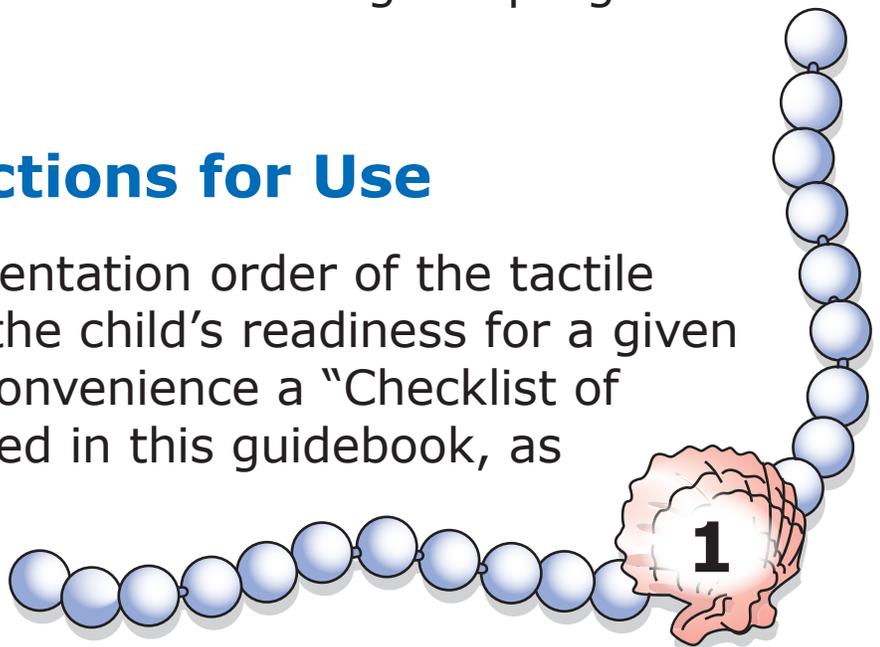
Overview of Materials

Tactile Treasures: Math and Language Concepts for Young Children with Visual Impairments, Color/Tactile Edition, is an informal assessment and teaching tool for use with children with visual impairments and blindness in preschool, kindergarten, and elementary grades. It includes thermoformed sheets with pictures made from real objects to illustrate concepts related to shape, size, amount, comparison of two or more objects, position, pre-reading, and page orientation. The guidebook provides two suggested scripts/stories for each concept. These scripts can be read aloud to the child as the tactile pages are presented.

Tactile Treasures was originally published by the American Printing House for the Blind in 1997. This newest edition incorporates notable updates including the addition of color, more durable tactile sheets, and a "Checklist of Concepts" for monitoring the progress of an individual child.

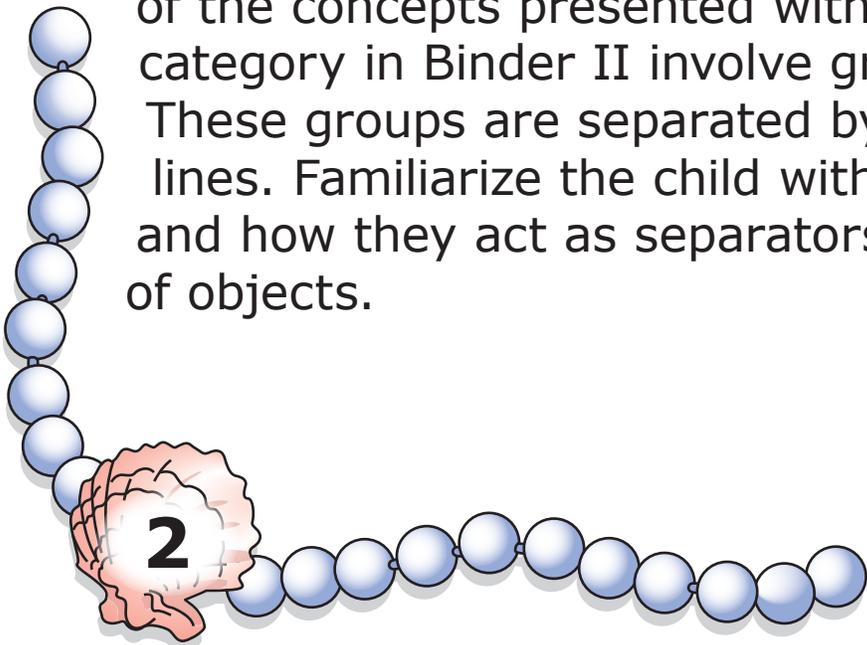
Instructions for Use

- Determine the presentation order of the tactile pages based upon the child's readiness for a given concept. For your convenience a "Checklist of Concepts" is provided in this guidebook, as



well as on the accompanying CD, to track a child's understanding of each concept.

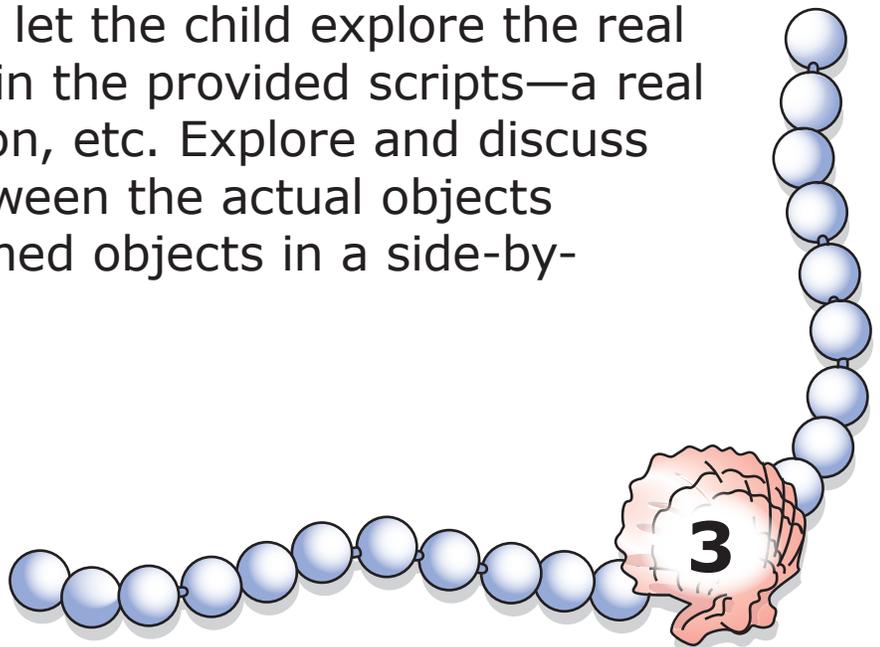
- Always remove a tactile sheet from the binder before use and place it on a flat, secure surface within a comfortable reaching distance from the child. If desired, a sheet of non-slip material or shelf liner (e.g., Dycem®) can be placed under the sheet during presentation.
- Utilize the provided scripts to introduce each concept. In most cases, a concept is presented twice on the same tactile page. The raised bar in the center of the tactile page divides it into top and bottom halves. The top half corresponds to Script 1 and the bottom half corresponds to Script 2. Occasionally, a concept is presented only once on a given page. The tactile sheets are numbered in the lower left corner of each page in braille and incised print.
- For those pages that are divided into top and bottom halves, familiarize the child with the tactile dividing line (or raised bar) in the center of the page. Many of the concepts presented within the "AMOUNT" category in Binder II involve groups of objects. These groups are separated by dotted vertical lines. Familiarize the child with these dotted lines and how they act as separators between groups of objects.



- Sometimes concepts that are synonymous in meaning (e.g., *largest* and *biggest*) are presented via the same scripts and accompanying tactile page(s). Interchange the use of these concepts.
- In some cases, related concepts (e.g., *first*, *second*, *third*, and *last*) or concepts opposite in meaning (e.g., *nearest* and *farthest*) are presented on the same tactile page. Be sure to introduce all related concepts.
- Before reading an accompanying script, allow time for the child to explore and describe the tactile page. Does he recognize the object(s) on the page before the script is read? Proceed to read the script that identifies the displayed object(s). Let the child respond to the script's prompt (e.g., "Find the *longest* straw," etc.) by touching the object that correctly answers the question. Encourage the child to explain the reason for his selection.

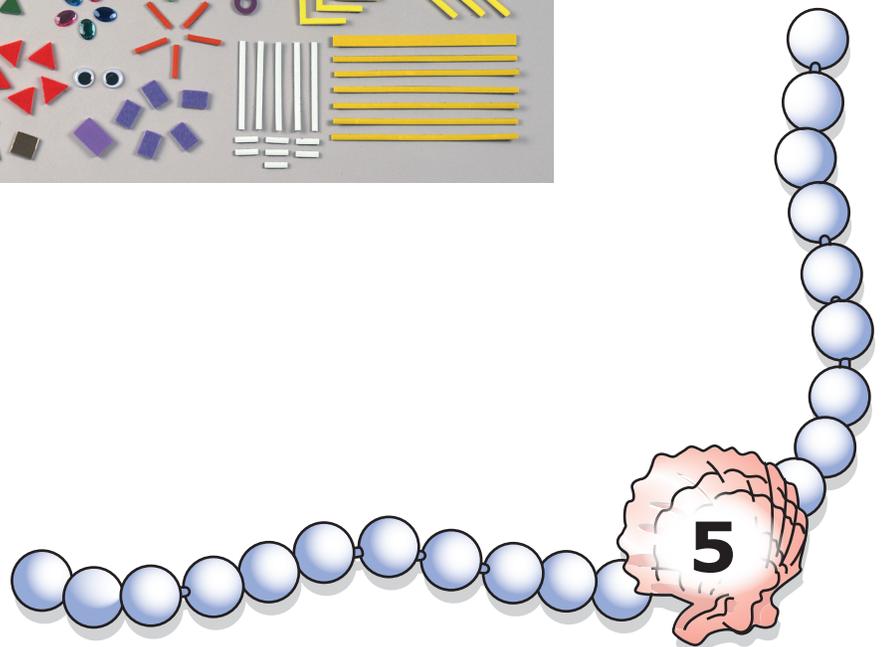
Extended Activities

- Whenever possible, let the child explore the real objects mentioned in the provided scripts—a real pretzel, a real button, etc. Explore and discuss the differences between the actual objects and the thermoformed objects in a side-by-side fashion.

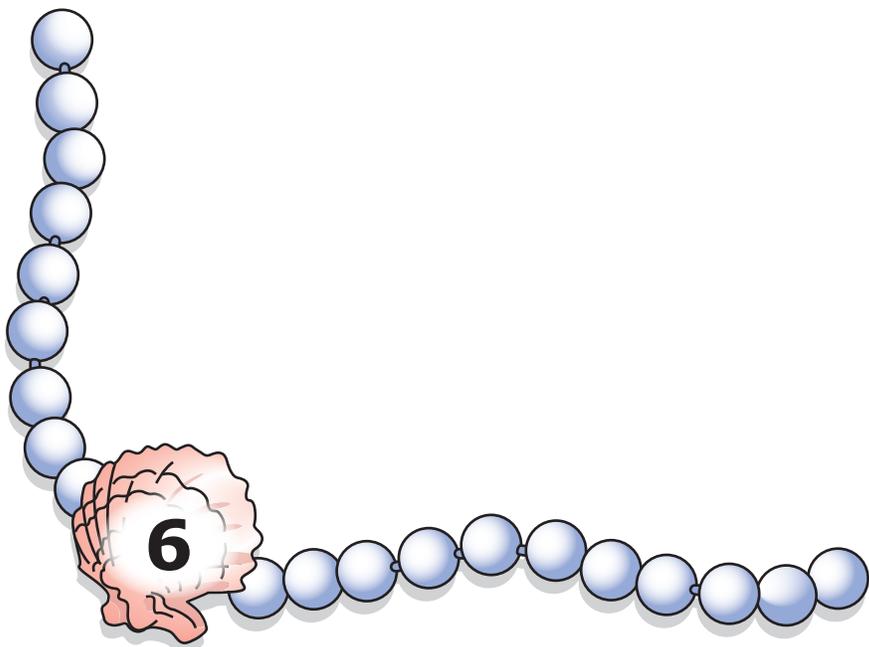
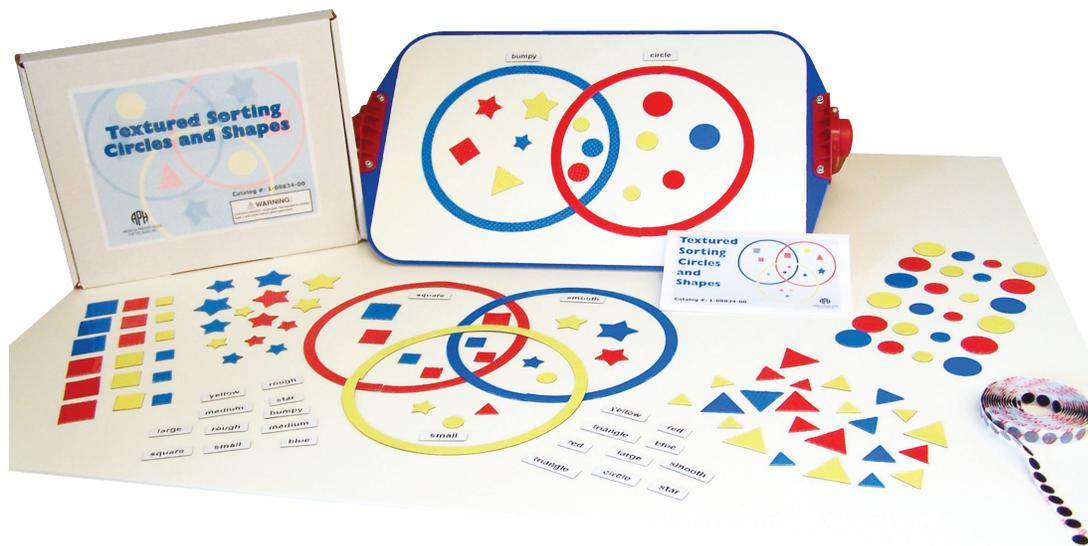


- Recreate the tactile page layout using real objects.
- Encourage descriptive language. Before reading the script, ask the child to describe what she feels on the tactile page (e.g., bumpy, rough, smooth, curved, pointed, etc.) and discuss similarities and differences between the objects shown.
- Compose original scripts to accompany the tactile pages that are meaningful to the child.
- Substitute the proper name(s) in the script with the child's name or the name of someone personally known by the child.
- Introduce or reinforce concepts other than the one(s) presented in the script. For example, the following questions might be posed using the tactile page that introduces the concept of *circle*. What shape is to the *left/right* of the circle? What is the *first/second/third/last* shape in the row? What shape is *between* two other shapes? Where is the *square*? Where is the *triangle*? What shape is *next to/beside* the square? Are any of the shapes the *same*? Are there *more* or *fewer* shapes *below* the raised bar? Are the number of shapes *above* the raised bar *equal* to the number of shapes *below* the raised bar?
- Challenge the child to create a story incorporating both objects shown above and below the raised bar on the tactile page (no matter how silly the resulting tale!).

- If the child seems distracted by the tactile objects shown below the raised bar when attention should be on the tactile objects above the raised bar (or vice versa), cover the unused portion of the tactile page with a small sheet of paper.
- Use interactive tactile materials to practice and reinforce the concepts presented throughout ***Tactile Treasures***. The following APH products are recommended:
 - **Picture Maker: Wheatley Tactile Diagramming Kit** (Catalog No. 1-08838-00) and related accessory packages such as **Textured Strips** (Catalog No. 1-08838-02) and **Geometric Textured Shapes** (Catalog No. 1-08838-01)



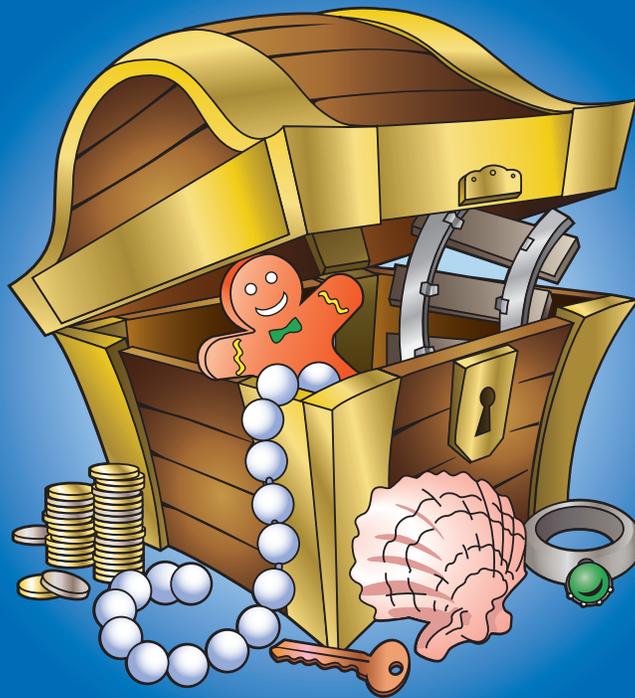
- Textured Sorting Circles and Shapes (Catalog No. 1-08834-00)



Shape

Circle
Square
Triangle
Rectangle
Oval
Star

Heart
Diamond
Straight
Curved
Underlined
X (shape)



BINDER 1

CIRCLE PAGE 1

SCRIPT 1

Many things in our world are shaped like a *circle*, such as coins, plates, cookies, and jar lids. Find a *circle* among these shapes.

SCRIPT 2

Brrr, it's cold outside! I'd better button up my coat. My coat has *circle*-shaped buttons. Find the buttons that are shaped like *circles*.

SQUARE PAGE 2

SCRIPT 1

A *square* has four straight sides of equal length and four corners. Find a *square* among these shapes.

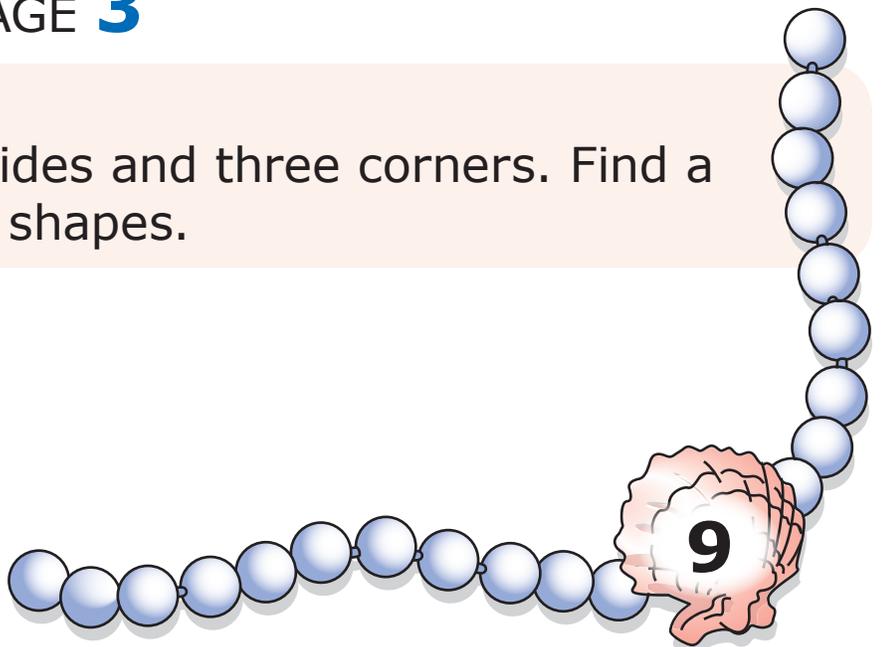
SCRIPT 2

The children wanted to have peanut butter on *square* crackers for a snack. Find the *square* crackers.

TRIANGLE PAGE 3

SCRIPT 1

A *triangle* has three sides and three corners. Find a *triangle* among these shapes.



SCRIPT 2

Tammy's mother cut the sandwiches into fancy shapes for the party. Some of the sandwiches were shaped like *triangles*. Find the *triangles* among these shapes.

RECTANGLE PAGE 4

SCRIPT 1

A *rectangle* has four straight sides like a square, but its sides are not all the same length. A *rectangle* has two long sides and two short sides. Find a *rectangle* among these shapes.

SCRIPT 2

Carlos found a box full of game pieces in the toy closet. There were round checkers, square tiles, and *rectangle*-shaped dominos. Find the game pieces shaped like *rectangles*.

OVAL PAGE 5

SCRIPT 1

An *oval* has no corners and is sort of like a stretched circle. Find the *oval* among these shapes.

SCRIPT 2

Carrie's favorite candy is jellybeans—especially the cherry-flavored kind. Jellybeans are shaped like *ovals*. Find the *oval*-shaped candy.

STAR PAGE 6

SCRIPT 1

Vanessa likes playing dress-up in her fairy godmother costume with the *star*-shaped magic wand. Find the *star* among these shapes.

SCRIPT 2

Sam cut *star* shapes out of rolled playdough. Find the *stars* among these shapes.

HEART PAGE 7

SCRIPT 1

The *heart*-shaped picture frame fell and broke while Wendy was dusting the mantel. Find the *heart*-shaped picture frame.

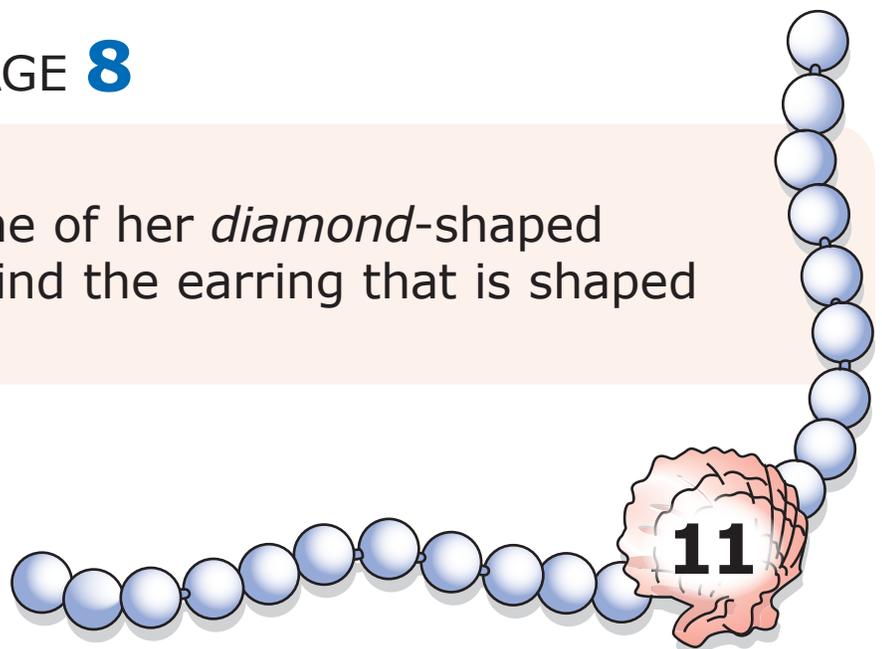
SCRIPT 2

Matthew brought *heart*-shaped candies to school for Valentine's Day to share with his friends. Find the *heart*-shaped pieces of candy.

DIAMOND PAGE 8

SCRIPT 1

Maddie's mom lost one of her *diamond*-shaped earrings. Here it is! Find the earring that is shaped like a *diamond*.



SCRIPT 2

Dustin couldn't wait to become a cub scout like his older brother and earn *diamond*-shaped badges. Find the *diamond*-shaped badges.

STRAIGHT PAGE 9

SCRIPT 1

A *straight* piece of spaghetti can quickly become a wiggly wet noodle once it is cooked. Find the *straight* piece of spaghetti.

SCRIPT 2

Marie and her dad were replacing some old nails on the barn. The new nails were *straight*, but the old nails were bent or curved. Find the *straight* nails.

CURVED PAGE 10

SCRIPT 1

Bart and Morgan were using toy blocks to build a road for their cars. They wanted to add some *curved* pieces. Find a *curved* block.

SCRIPT 2

Most of the track pieces in Kris's electric train set were straight, but a few pieces were *curved*. Find the *curved* pieces of train track.

UNDERLINED PAGE 11

SCRIPT 1

Lucy drew a line under her favorite shape. Was Lucy's favorite shape a square, triangle, or circle? Find the *underlined* shape and you'll know Lucy's favorite shape.

SCRIPT 2

Steven only colored the circles with a line under them. Find all of the *underlined* circles.

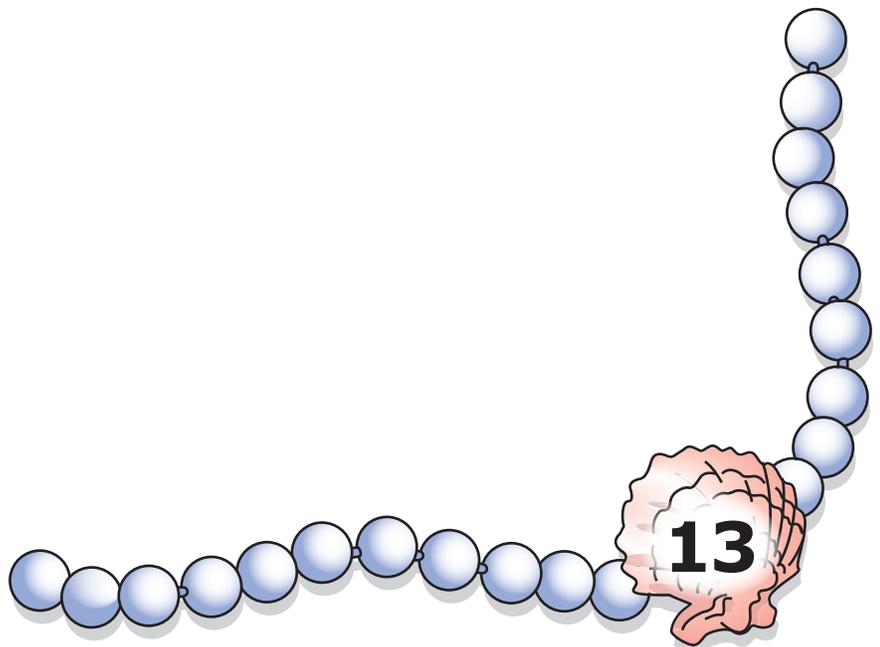
X (shape) PAGE 12

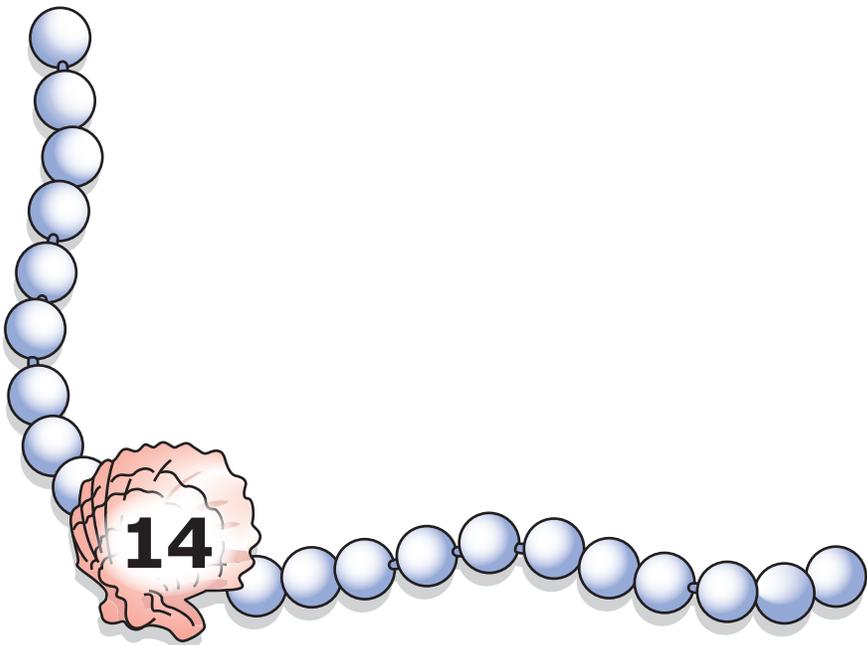
SCRIPT 1

The location of the treasure chest was marked by an X on the map. Find an X among these shapes.

SCRIPT 2

Oliver placed the X-shaped game pieces in a row on the Tic-Tac-Toe board. Find the X-shaped game pieces.

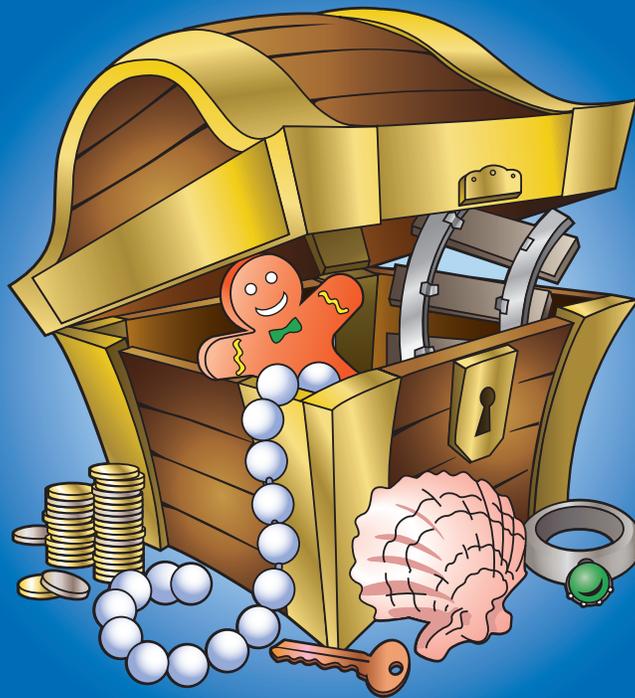




Size

Smaller/-est
Larger/-est
Bigger/-est
Medium-sized
Longer/-est

Shorter/-est
Taller/-est
Thinner/-est
Wider/-est
Fatter/-est



BINDER 1

SMALLER PAGE 13

SCRIPT 1

Christine's ring is much *smaller* than her sister's. Find the *smaller* ring.

SCRIPT 2

Jose hung the *smaller* of two candy canes on the tree branch. Find the *smaller* candy cane.

SMALLEST PAGE 14

SCRIPT 1

Jessica glued the *smallest* button on her paper man. It made the perfect nose! Find the *smallest* button.

SCRIPT 2

The carpenter used the *smallest* screw to fasten the broken leg onto the stool. Find the *smallest* screw.

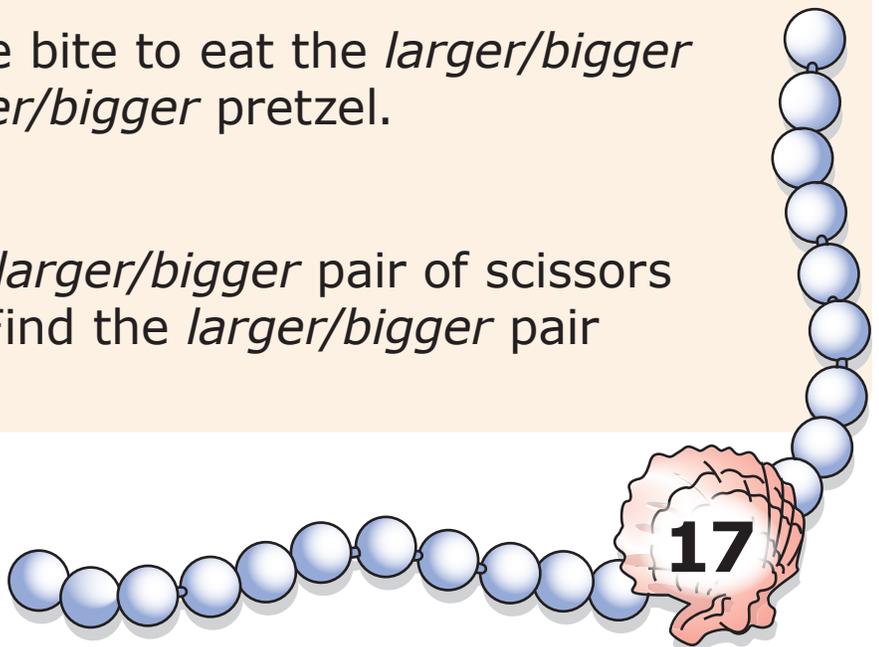
LARGER/BIGGER PAGE 15

SCRIPT 1

It took more than one bite to eat the *larger/bigger* pretzel. Find the *larger/bigger* pretzel.

SCRIPT 2

Amy liked to use the *larger/bigger* pair of scissors for her art projects. Find the *larger/bigger* pair of scissors.



LARGEST/BIGGEST PAGE 16

SCRIPT 1

Aiden dumped the coins out of his grandmother's change purse. The *largest/biggest* coin was a half dollar. Find the *largest/biggest* coin.

SCRIPT 2

Jenna was delighted that her present was wrapped in the *largest/biggest* box. Find the *largest/biggest* box.

MEDIUM-SIZED PAGE 17

SCRIPT 1

Troy placed three different coins next to each other on the table. His favorite coin was neither the largest nor the smallest coin. His favorite coin was the *medium-sized* coin. Find the *medium-sized* coin.

SCRIPT 2

The largest piece of chalk had never been used. The smallest piece of chalk had been used a lot. But the *medium-sized* piece of chalk had been used only a few times. Find the *medium-sized* piece of chalk.

LONGER PAGE 18

SCRIPT 1

Juan had only two pencils in his desk drawer. The *longer* one he borrowed from his friend. Find the *longer* pencil.

SCRIPT 2

Of the two barrettes, the *longer* barrette held Susan's hair better. Find the *longer* barrette.

LONGEST PAGE 19

SCRIPT 1

Alyssa hunted for the broken pieces of her pearl necklace. She found the *longest* strand of pearls under the bed. Find the *longest* strand of pearls.

LONGEST PAGE 20

SCRIPT 2

Antonio needed the *longest* drinking straw to sip the lemonade from the tall glass. Find the *longest* drinking straw.

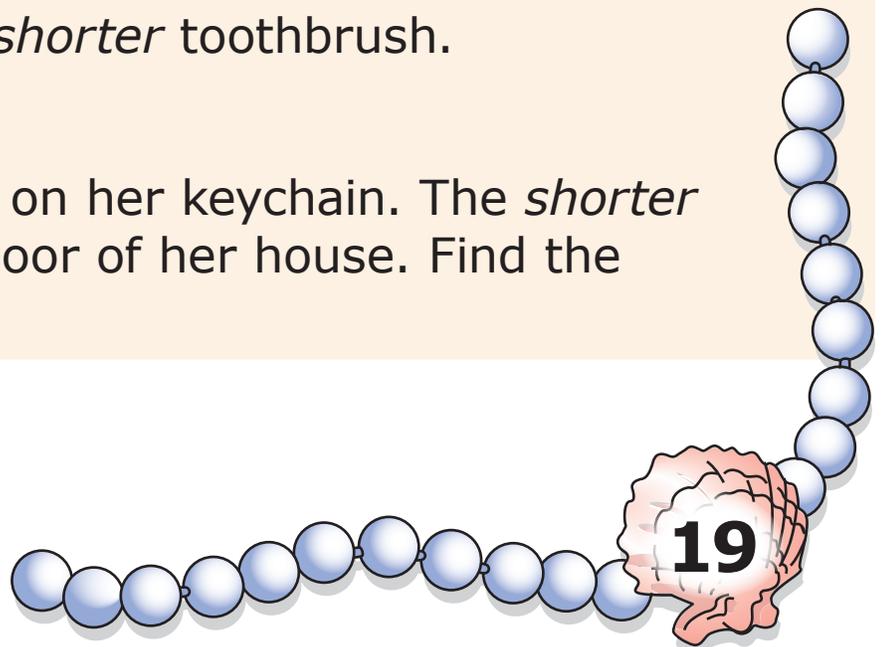
SHORTER PAGE 21

SCRIPT 1

Jake's toothbrush is *shorter* than his father's toothbrush. Find the *shorter* toothbrush.

SCRIPT 2

Simone has two keys on her keychain. The *shorter* key opens the front door of her house. Find the *shorter* key.



SHORTEST PAGE 22

SCRIPT 1

Charlie used his favorite crayon so often that it is now the *shortest* crayon in the box. Find the *shortest* crayon.

SCRIPT 2

Samantha helped her uncle find the *shortest* nail in the toolbox. Find the *shortest* nail.

TALLER PAGE 23

SCRIPT 1

Mindy's gingerbread man was *taller* than Luke's. Find the *taller* gingerbread man.

SCRIPT 2

Scott pretended that the *taller* stack of blocks was an office building. Find the *taller* stack of blocks.

TALLEST PAGE 24

SCRIPT 1

Stephanie put the *tallest* birthday candle in the center of the cake. Find the *tallest* birthday candle.

SCRIPT 2

The person who can make the *tallest* stack of pennies within a minute will be the winner. Find the *tallest* stack of pennies.

THINNER PAGE 25

SCRIPT 1

One of the square picture frames was *thinner* than the other. Find the *thinner* picture frame.

SCRIPT 2

The *thinner* cord was easier to tie around the box. Find the *thinner* cord.

THINNEST PAGE 26

SCRIPT 1

It was impossible to drink the thick chocolate milkshake with the *thinnest* straw. Find the *thinnest* straw.

SCRIPT 2

Carl wanted to use the *thinnest* type of noodle in his casserole. Find the *thinnest* noodle.

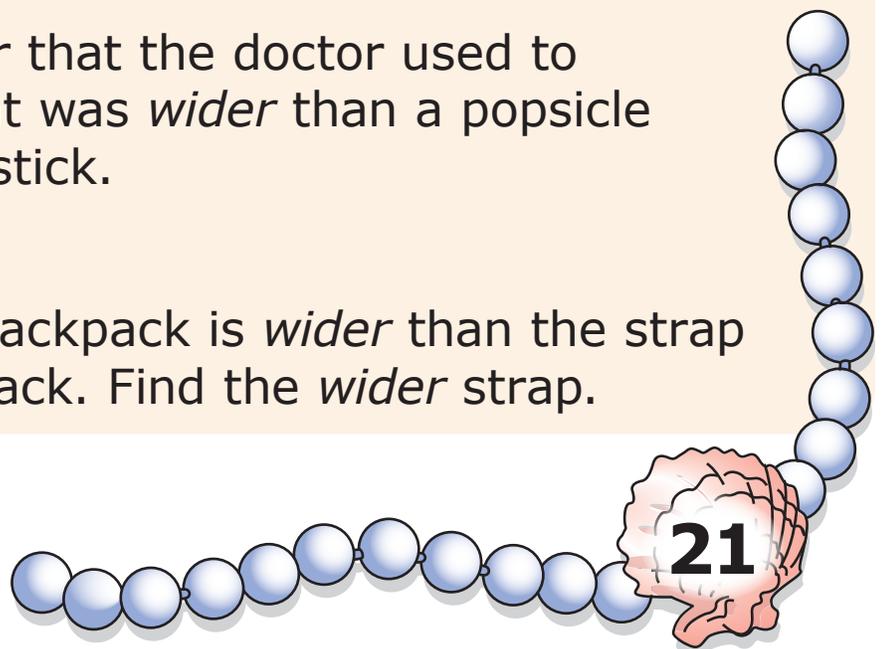
WIDER PAGE 27

SCRIPT 1

The tongue depressor that the doctor used to examine Sean's throat was *wider* than a popsicle stick. Find the *wider* stick.

SCRIPT 2

The strap on Kate's backpack is *wider* than the strap on her friend's backpack. Find the *wider* strap.



WIDEST PAGE 28

SCRIPT 1

Marty wanted the toy train with the *widest* track for his birthday. Find the *widest* train track.

SCRIPT 2

Francine liked the watch with the *widest* wristband. Find the watch with the *widest* wristband.

FATTER PAGE 29

SCRIPT 1

Brooke's gingerbread man is *fatter* than Todd's. Find the *fatter* gingerbread man.

SCRIPT 2

Both pretzel sticks were salted, but the *fatter* pretzel stick was tastier. Find the *fatter* pretzel stick.

FATTEST PAGE 30

SCRIPT 1

Larry wanted to use the *fattest* crayon to finish the coloring activity. Find the *fattest* crayon.

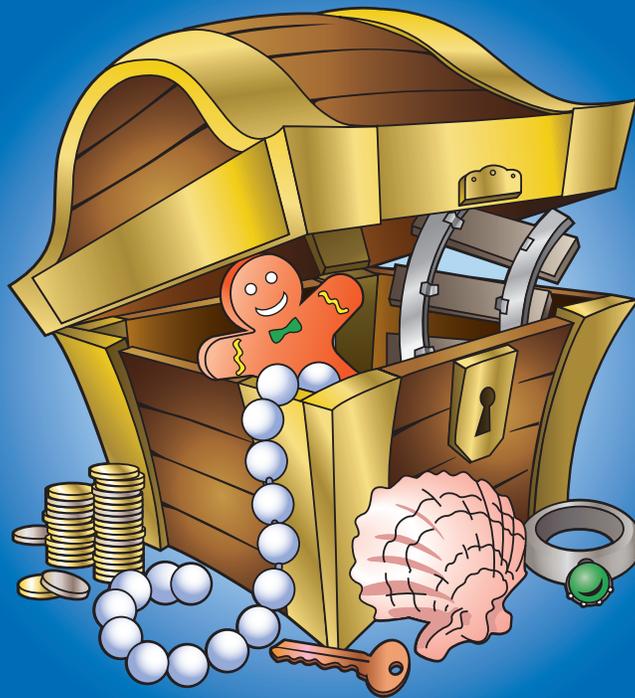
SCRIPT 2

Clair taped the *fattest* candy cane to the top of the present. Find the *fattest* candy cane.

Comparison

Same
Different
Alike
Match

With
Without
Other



BINDER 2

SAME PAGE 31

SCRIPT 1

Kelsey and Kyle bent their pipe cleaners into the *same* shape. Find the shapes that are the *same*.

SCRIPT 2

Lindsey bought some nuts from the store. Most of the nuts she chose were the *same*. Find the nuts that are the *same*.

DIFFERENT PAGE 32

SCRIPT 1

One of the crayons in Aaron's crayon box was *different* from the others. Find the crayon that is *different* from the other crayons.

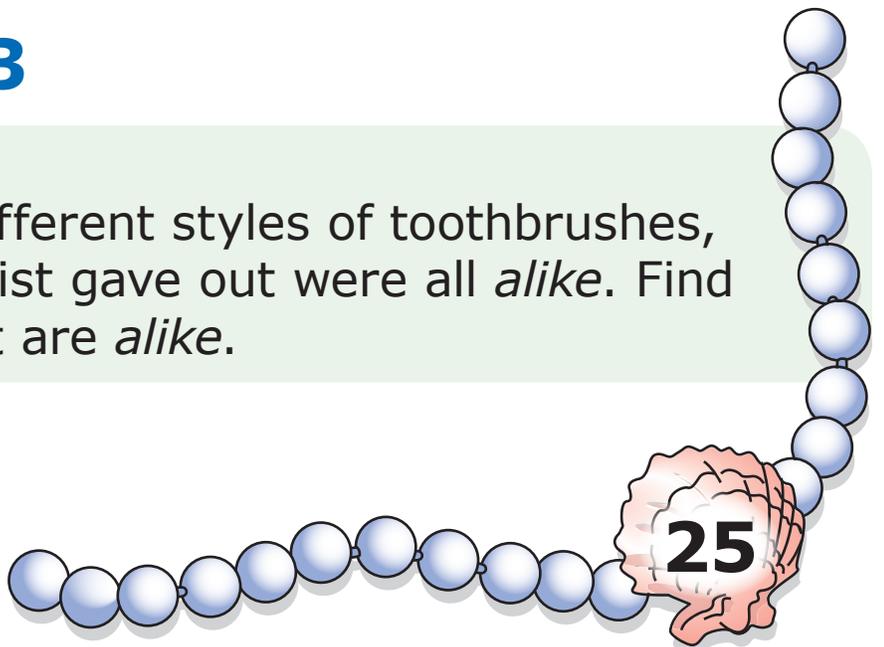
SCRIPT 2

Valerie found some seashells on the beach, but her favorite was the one that was *different* from the others. Find the seashell that is *different* from the others.

ALIKE PAGE 33

SCRIPT 1

There are so many different styles of toothbrushes, but the type the dentist gave out were all *alike*. Find the toothbrushes that are *alike*.



SCRIPT 2

Before Lydia went swimming, she pulled her hair back with two barrettes. The barrettes she wore were *alike*. Find the barrettes that are *alike*.

MATCH PAGE 34

SCRIPT 1

Josh thinks that both keys must open the same door because they *match*. Find the keys that *match*.

SCRIPT 2

Carmen found at least two earrings in her messy jewelry box that *match*. Find the earrings that *match*.

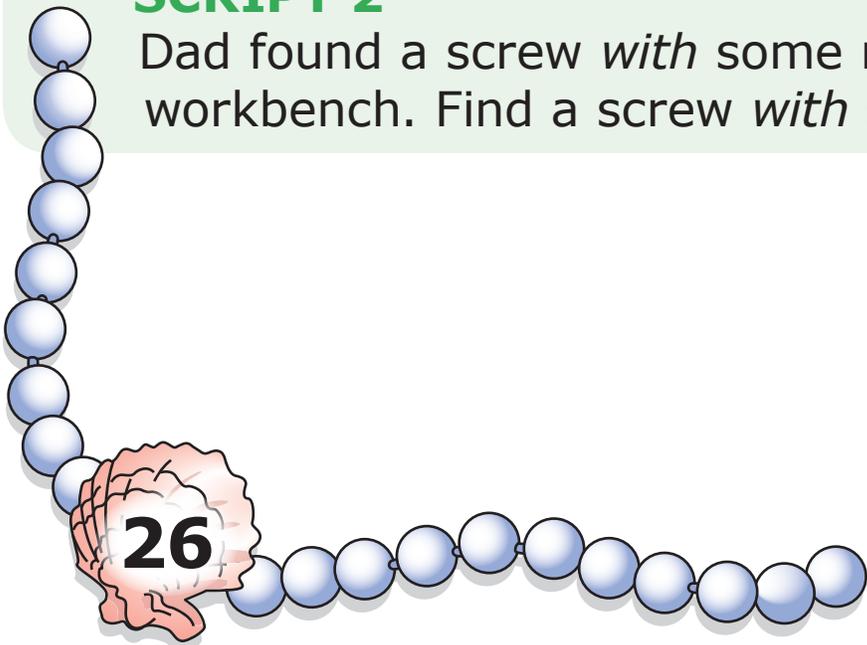
WITH PAGE 35

SCRIPT 1

Ben's mouth watered when he smelled the doughnut *with* chocolate sprinkles. Find the doughnut *with* chocolate sprinkles.

SCRIPT 2

Dad found a screw *with* some nails on top of his workbench. Find a screw *with* some nails.



WITHOUT PAGE 36

SCRIPT 1

Holly still has all of the cups to her tea party set, but one of the cups is broken and *without* a handle. Find the cup *without* a handle.

SCRIPT 2

Nathan likes pretzels *without* salt. Find the pretzel *without* salt.

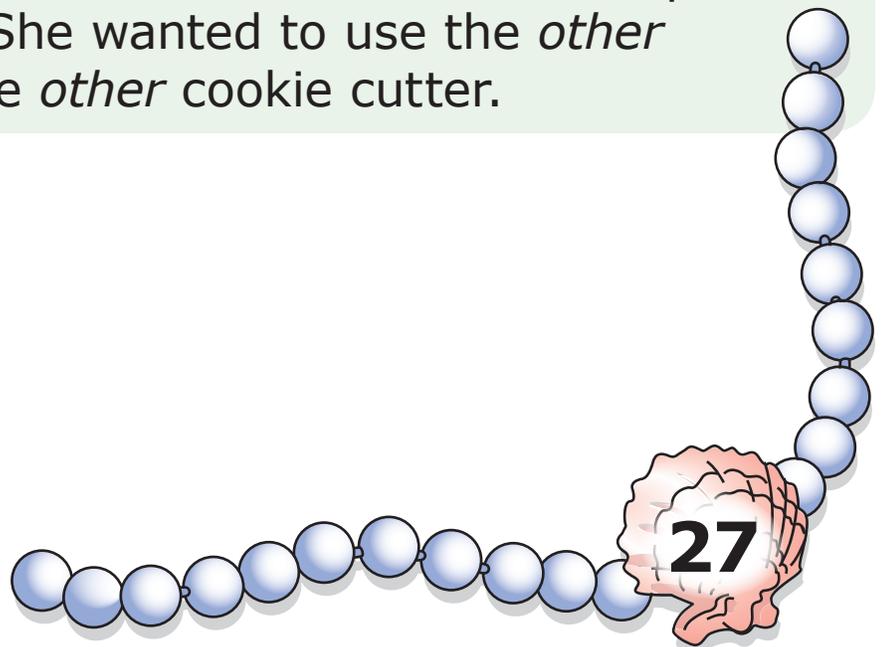
OTHER PAGE 37

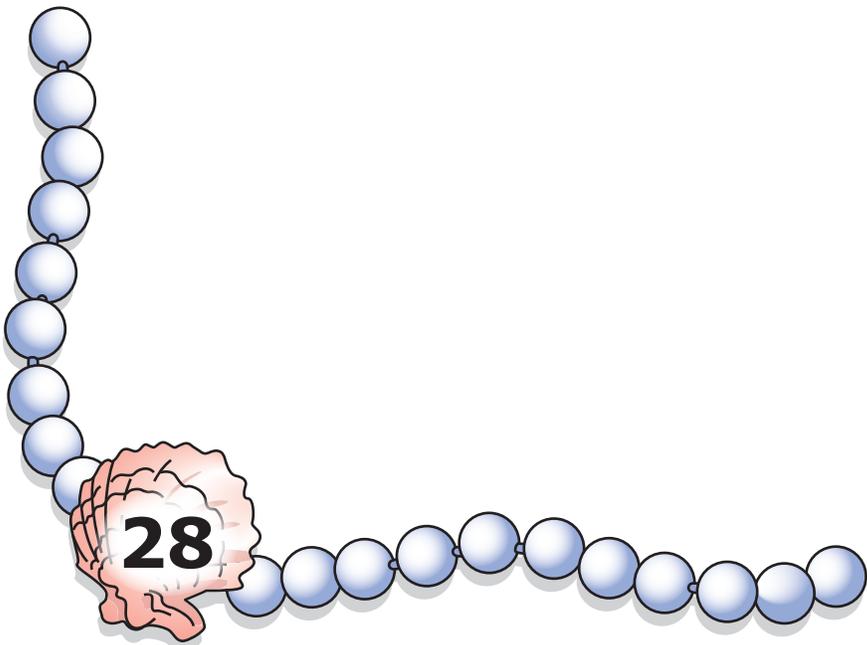
SCRIPT 1

Whoops! Anthony just dropped one of his gingerbread man cookies on the floor. An arm and leg broke off. That's okay...he can eat the *other* gingerbread man cookie. Find the *other* gingerbread man cookie.

SCRIPT 2

Kara had three cookie cutters she could use to make her cookies. She didn't want to use the heart-shaped cookie cutter. She didn't want to use the star-shaped cookie cutter either. She wanted to use the *other* cookie cutter. Find the *other* cookie cutter.



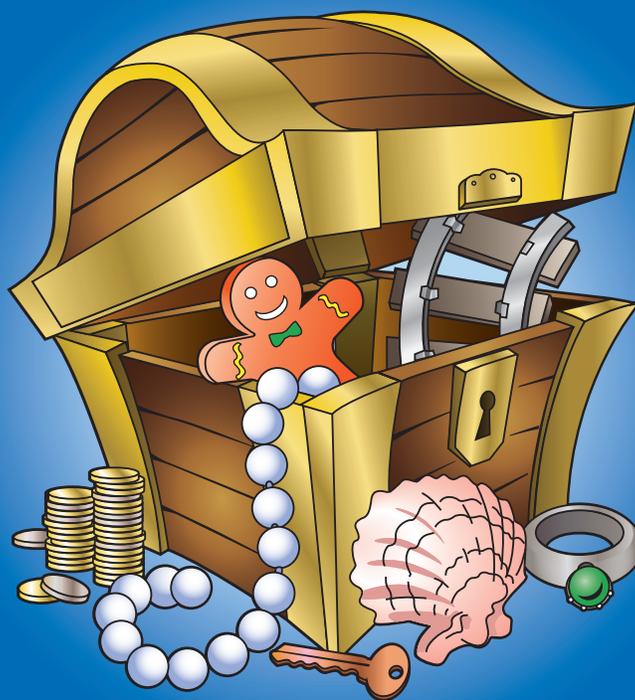


Amount

Many
Most
Least/Fewest
More
Less
Some, Not Many

As Many
Several
Few/Fewer
Every
All
None

Equal
Unequal
Almost
Half
Whole
Pair



BINDER 2

NOTE: Many of the concepts presented within the "AMOUNT" category involve groups of objects. These groups are separated by dotted vertical lines. Familiarize the child with these dotted lines and how they act as separators between groups of objects.

SCRIPT 1

Gayle made a wreath by gluing uncooked macaroni onto a circular piece of cardboard. It took *many* pieces of macaroni to finish her wreath. Find the group that has *many* pieces of macaroni.

SCRIPT 2

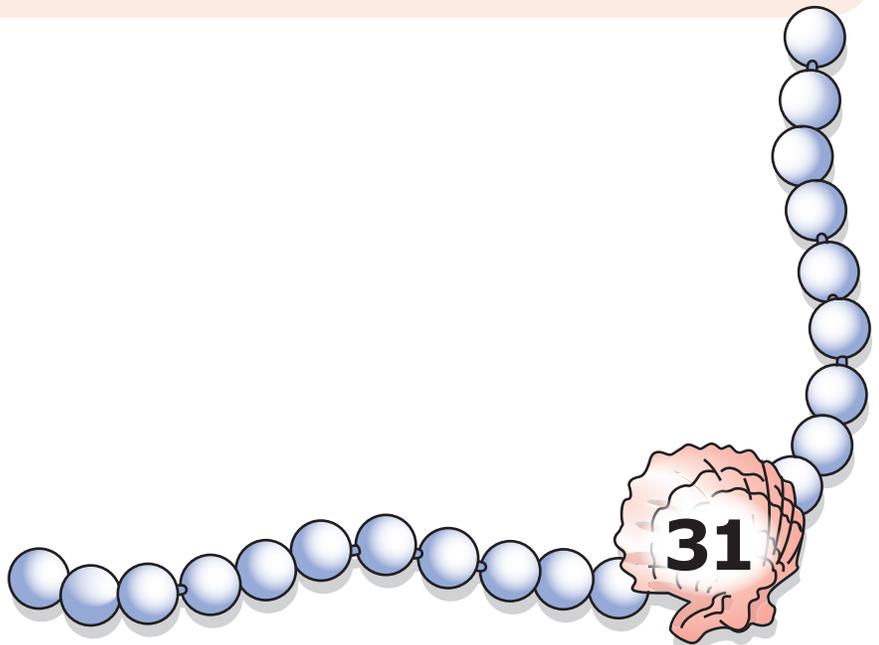
Many nails are needed to fix the porch floor. Find the group that has *many* nails.

SCRIPT 1

At the fall festival, Yan won a prize during the pumpkin carving contest for gathering the *most* pumpkin seeds. Find the group that has the *most* pumpkin seeds.

SCRIPT 2

Shawna was such a slow eater! She had the *most* Cheerios left in her breakfast bowl. Find the group that has the *most* Cheerios.



LEAST/FEWEST PAGE 40

SCRIPT 1

Although Alexander found the *least/fewest* number of seashells on his family's trip to the beach, his seashells were by far the most interesting. Find the group that has the *least/fewest* number of seashells.

SCRIPT 2

Briana is the youngest in her family and has the *least/fewest* number of candles on her cake. Find the group with the *least/fewest* number of candles.

MORE PAGE 41

SCRIPT 1

One doughnut had *more* sprinkles than the other. Find the doughnut with *more* sprinkles than the other.

SCRIPT 2

There were *more* rings in one box than there were in the other boxes. Find the box that has *more* rings than the other boxes.

LESS/FEWER PAGE 42

SCRIPT 1

One of the hair combs has *less/fewer* teeth than the others. Find the comb with *less/fewer* teeth than the others.

SCRIPT 2

There were *less/fewer* beads on Jan's bracelet than there were on Lynn's. Find the bracelet with *less/fewer* beads than the other.

SOME, NOT MANY PAGE 43

SCRIPT 1

Trent was disappointed to find only *some, not many* dimes in his pocket. Find the group that has *some, not many* dimes.

SCRIPT 2

Cassie wore *some, not many* rings on her fingers. Find the group that has *some, not many* rings.

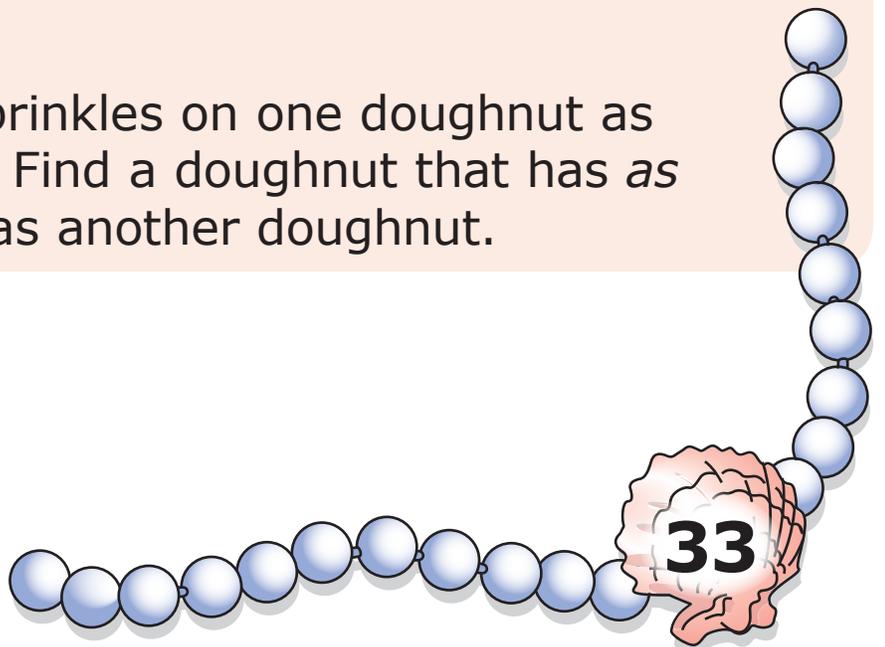
AS MANY PAGE 44

SCRIPT 1

There are *as many* Cheerios in one box as there are in another. Find a box that has *as many* Cheerios as another box.

SCRIPT 2

There are *as many* sprinkles on one doughnut as there are on another. Find a doughnut that has *as many* sprinkles on it as another doughnut.



SEVERAL PAGE 45

SCRIPT 1

When trick-or-treaters came to her door on Halloween night, Johanna gave each goblin *several* pieces of bubble gum. Find a group that has *several* pieces of bubble gum.

SCRIPT 2

There were *several* pushpins on Ted's cork board. Find a group that has *several* pushpins.

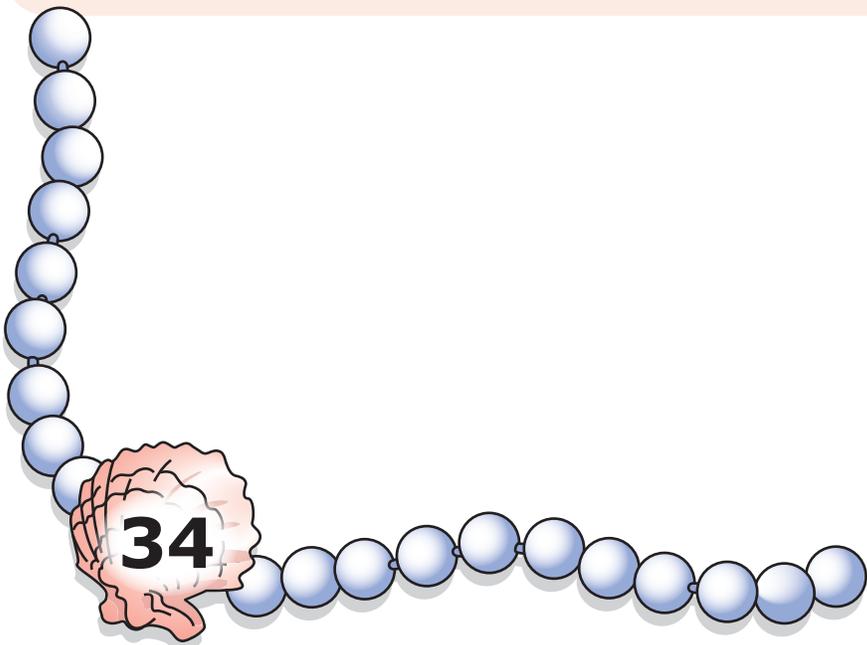
FEW PAGE 46

SCRIPT 1

Elizabeth needed only a *few* buttons to sew onto a sock to make the eyes and nose of her hand puppet. Find the group with a *few* buttons.

SCRIPT 2

Wesley's grandmother told him that he could eat just a *few* pieces of candy before dinner. Find the group with a *few* pieces of candy.



EVERY PAGE 47

SCRIPT 1

Ashley and Jim helped each other pick up the dropped game pieces. Ashley picked up *every* game piece shaped like a circle. Find the group in which *every* game piece is shaped like a circle.

SCRIPT 2

Every cup on the shelf had a handle. Find *every* cup with a handle.

ALL PAGE 48

SCRIPT 1

Casey removed *all* of the bent nails from the toolbox. Find the group in which *all* of the nails are bent.

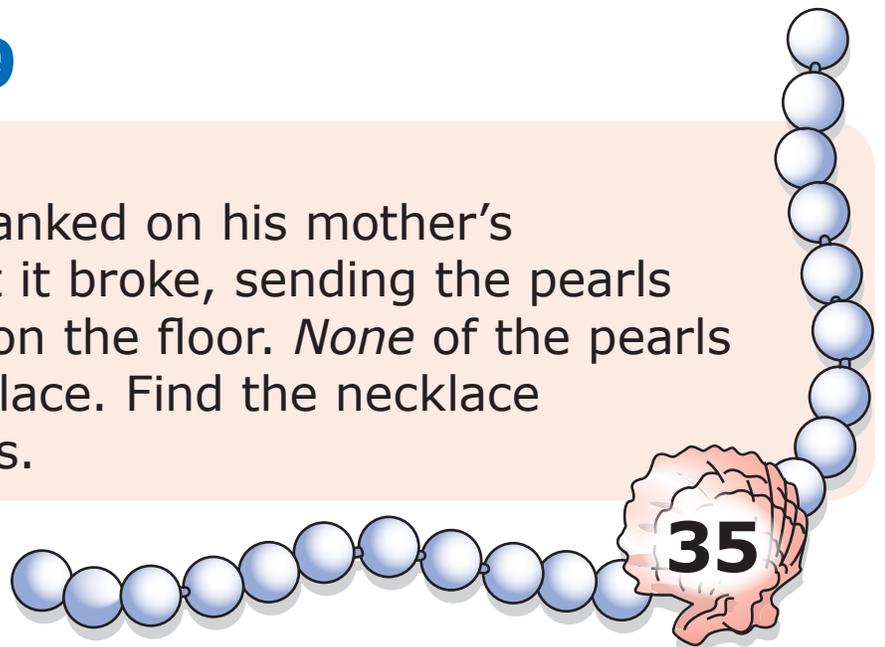
SCRIPT 2

Rob hadn't taken a single bite of his gingerbread man cookie. *All* of it was still on his plate. Find the gingerbread man that is *all* there.

NONE PAGE 49

SCRIPT 1

Oliver's baby sister yanked on his mother's necklace so hard that it broke, sending the pearls rolling and bouncing on the floor. *None* of the pearls were left on the necklace. Find the necklace with *none* of its pearls.



SCRIPT 2

None of the buttons on Kelly's sweater were square. Find the group in which *none* of the buttons are square.

EQUAL PAGE 50

SCRIPT 1

Two of the bracelets had an *equal* number of beads. Find two bracelets with an *equal* number of beads.

SCRIPT 2

Mike and Katie found an *equal* number of seashells on the beach. Find two groups with an *equal* number of seashells.

UNEQUAL PAGE 51

SCRIPT 1

The children separated the candy pieces into three groups, but the number of candy pieces in one group was *unequal* to the number of candy pieces in the other groups. Find the group of candy pieces that is *unequal* in number to those in the other two groups.

SCRIPT 2

The number of bubble gum pieces was *unequal* to the number of lollipops. Find the group in which there is an *unequal* number of bubble gum pieces compared to the number of lollipops.

ALMOST PAGE 52

SCRIPT 1

Lucy found an old comb in the bathroom drawer that was missing *almost* all of its teeth. Find the comb that is missing *almost* all of its teeth.

SCRIPT 2

It was taking Chad a long time to eat his candy cane, but it was *almost* gone. Find the candy cane that is *almost* gone.

HALF PAGE 53

SCRIPT 1

Peter broke his oatmeal cookie in *half* and shared it with his best friend. Find *half* of a cookie.

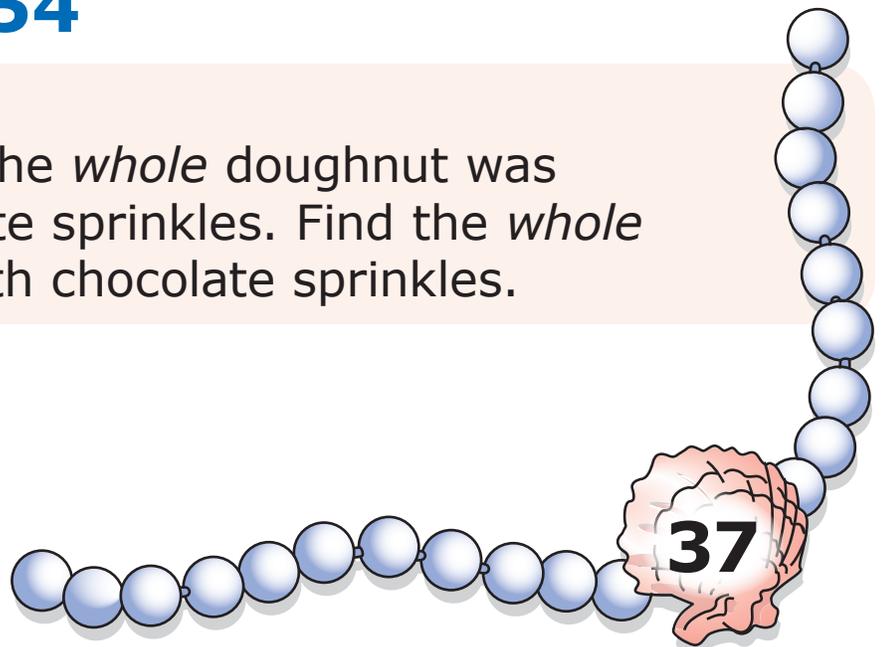
SCRIPT 2

Shannon zipped her jacket *half* way up on the breezy day. Find the zipper that is zipped *half* way up.

WHOLE PAGE 54

SCRIPT 1

To Melissa's delight, the *whole* doughnut was covered with chocolate sprinkles. Find the *whole* doughnut covered with chocolate sprinkles.



SCRIPT 2

Max wanted to eat a *whole* gingerbread man cookie... not just part of one. Find a *whole* gingerbread man cookie.

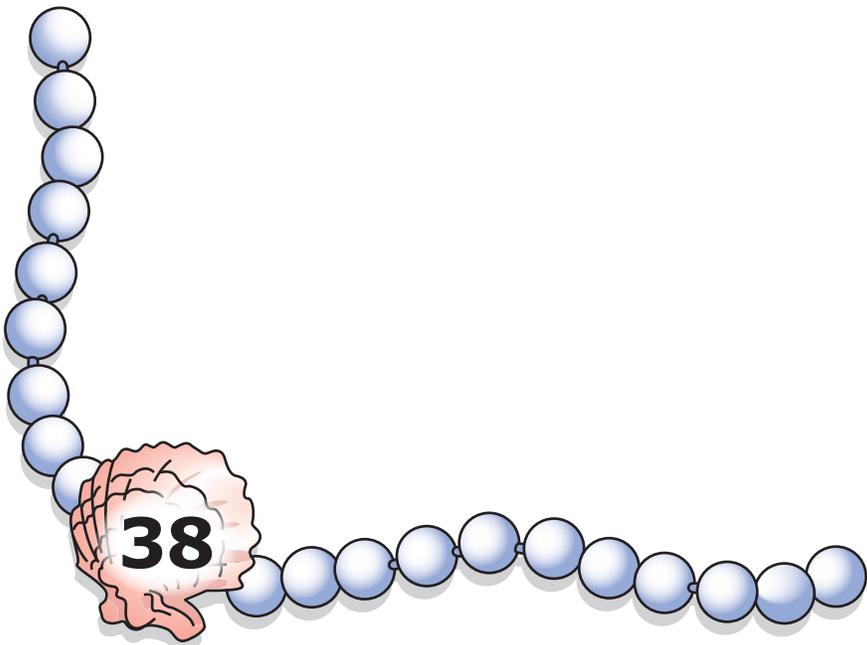
PAIR PAGE 55

SCRIPT 1

After searching through the box of old toys, Stacy finally found a doll with a *pair* of legs. Most of the old dolls were missing a leg and sometimes an arm or two. Find the doll with a *pair* of legs.

SCRIPT 2

Neil carved a *pair* of triangles in the pumpkin to make the jack-o'-lantern's eyes. Find a *pair* of triangles.

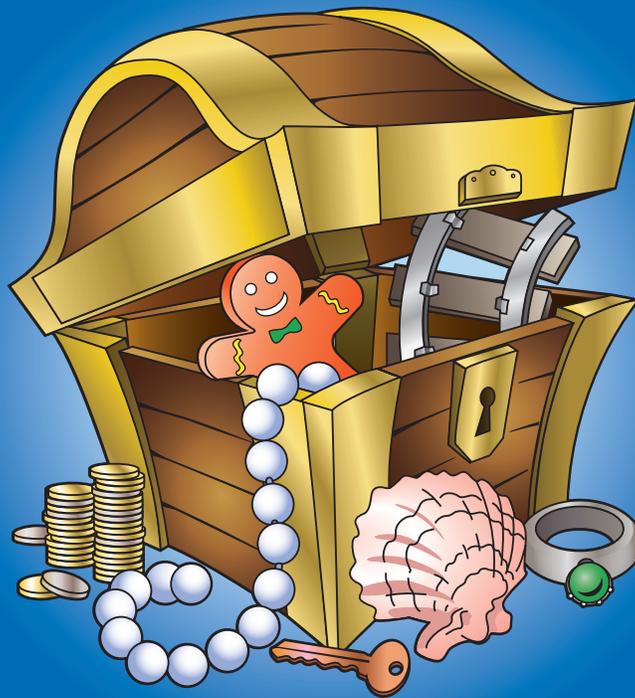


Position

Inside
Outside
Around
Over
Above
Under
Below
Between
Through
Away From

Next To
Beside
Nearest
Farthest
Separated
Top
Bottom
Upside Down
Right
Left

Center
Middle
Row
Line
First
Second
Third
Last
Beginning
End



BINDER 3

INSIDE PAGE 56

SCRIPT 1

The ball bounced a few times and landed *inside* the box. Find a ball *inside* the box.

SCRIPT 2

There were many circles on the page, but only one had an X *inside* of it. Find a circle with an X *inside* of it.

OUTSIDE PAGE 57

SCRIPT 1

Adam tried many times to roll the marble inside of the circle on the floor, but it kept landing *outside* of the circle. Find a marble that is *outside* of a circle.

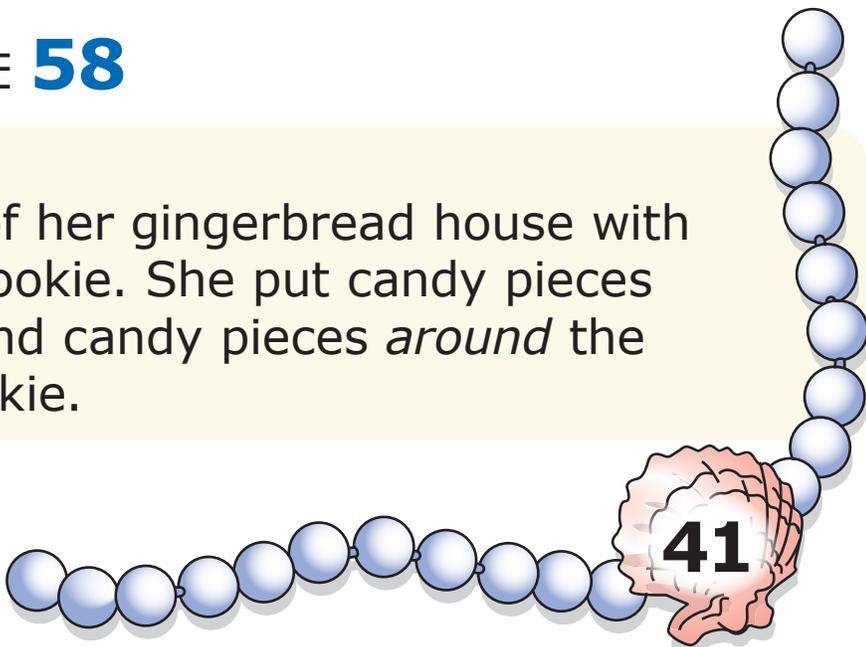
SCRIPT 2

The children were asked to glue the macaroni inside of the triangle for their art project, but some forgot and glued the macaroni *outside* of the triangle. Find the macaroni that is *outside* of a triangle.

AROUND PAGE 58

SCRIPT 1

Nina made the door of her gingerbread house with a rectangle-shaped cookie. She put candy pieces *around* the cookie. Find candy pieces *around* the rectangle-shaped cookie.



SCRIPT 2

The jeweler carefully placed the bracelet *around* the ring in the gift box before wrapping it. Find a bracelet that is *around* a ring.

OVER/ABOVE PAGE 59

SCRIPT 1

C.J. held a sugar cube *over/above* the hot coffee cup and counted to three before he let it drop into the cup. Find a sugar cube that is *over/above* a cup.

SCRIPT 2

Sheila made a house with her cardboard shapes. She placed a triangle *over/above* a square to make the roof. Find a triangle that is *over/above* a square.

UNDER/BELOW PAGE 60

SCRIPT 1

Lucia thought the triangle *under/below* the circle looked like an ice cream cone with one scoop of ice cream.

Find a triangle that is *under/below* a circle.

SCRIPT 2

Ben hung the heart-shaped picture frame *under/below* the square picture frame. Find a heart-shaped picture frame that is *under/below* a square picture frame.

BETWEEN PAGE 61

SCRIPT 1

Rusty made a make-believe town with his blocks and toy train track. He put the train track *between* his blocks. Find a train track that is *between* blocks.

SCRIPT 2

Fran's necklace had a large bead *between* two small beads. Find a large bead that is *between* small beads.

THROUGH PAGE 62

SCRIPT 1

Keisha made her own necklace by putting a string *through* some beads. Find a string going *through* some beads.

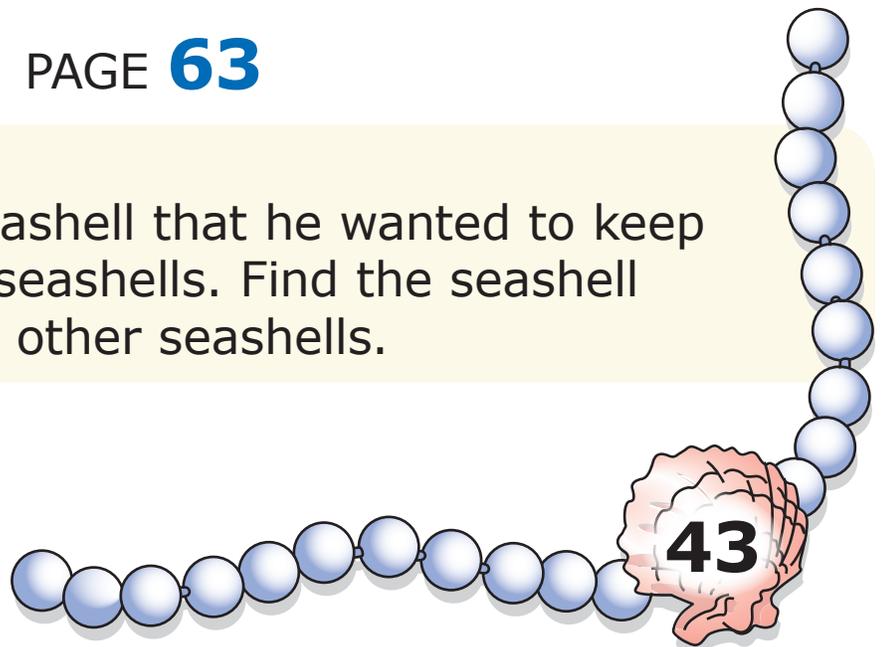
SCRIPT 2

Henry was acting silly at the breakfast table and put his juice straw *through* his Cheerios. Find a straw going *through* some Cheerios.

AWAY FROM PAGE 63

SCRIPT 1

Vincent placed the seashell that he wanted to keep *away from* the other seashells. Find the seashell that is *away from* the other seashells.



AWAY FROM PAGE 64

SCRIPT 2

Dana shook all of the coins out of her piggy bank onto the floor to count them, but one of the coins rolled *away from* the others. Find a coin that is *away from* the other coins.

NEXT TO/BESIDE PAGE 65

SCRIPT 1

Phillip had only a coin and a key in his shirt pocket. He pulled the coin and key out of his pocket and placed them *next to/beside* each other on the counter. Find a coin that is *next to/beside* a key.

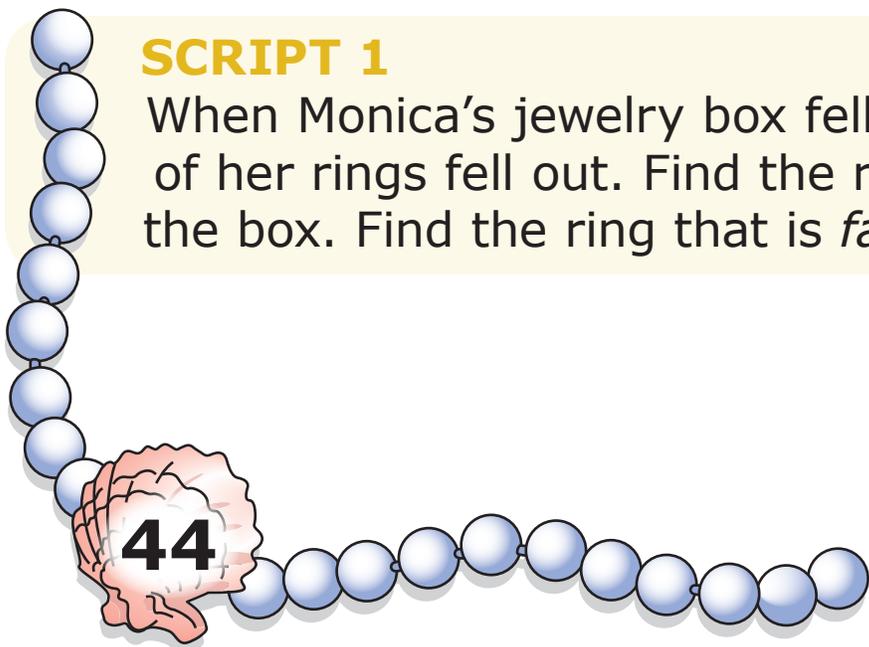
SCRIPT 2

Kaitlyn placed the jigsaw puzzle pieces *next to/beside* each other to find out if they fit together. Find the jigsaw puzzle pieces *next to/beside* each other.

NEAREST/FARTHEST PAGE 66

SCRIPT 1

When Monica's jewelry box fell on the floor, some of her rings fell out. Find the ring that is *nearest* to the box. Find the ring that is *farthest* from the box.



NEAREST/FARTHEST PAGE 67

SCRIPT 2

The winner of the game tossed the coin *nearest* to the string. Find the coin that is *nearest* to the string. Find the coin that is *farthest* from the string.

SEPARATED PAGE 68

SCRIPT 1

The square is *separated* from the circle by a dotted line. Find a square that is *separated* from a circle by a dotted line.

SCRIPT 2

A dotted line *separated* one group of circles from another group of circles. Find the groups of circles *separated* by a dotted line.

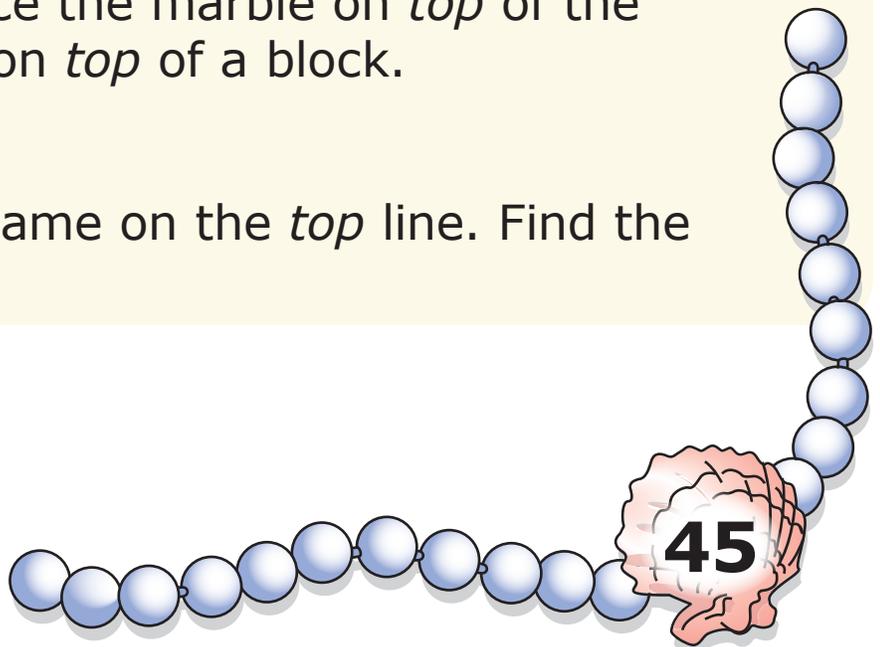
TOP PAGE 69

SCRIPT 1

Jamaal tried to balance the marble on *top* of the block. Find a marble on *top* of a block.

SCRIPT 2

Francine signed her name on the *top* line. Find the *top* line.



BOTTOM PAGE **70**

SCRIPT 1

Min was worried that the *bottom* of the cup might scratch the table top. Find the *bottom* of the cup.

SCRIPT 2

Louisa pushed the *bottom* of the candle into the birthday cake. Find the *bottom* of the candle.

UPSIDE DOWN PAGE **71**

SCRIPT 1

Bryan placed the clean teacups *upside down* on the shelf. Find the cup that is *upside down*.

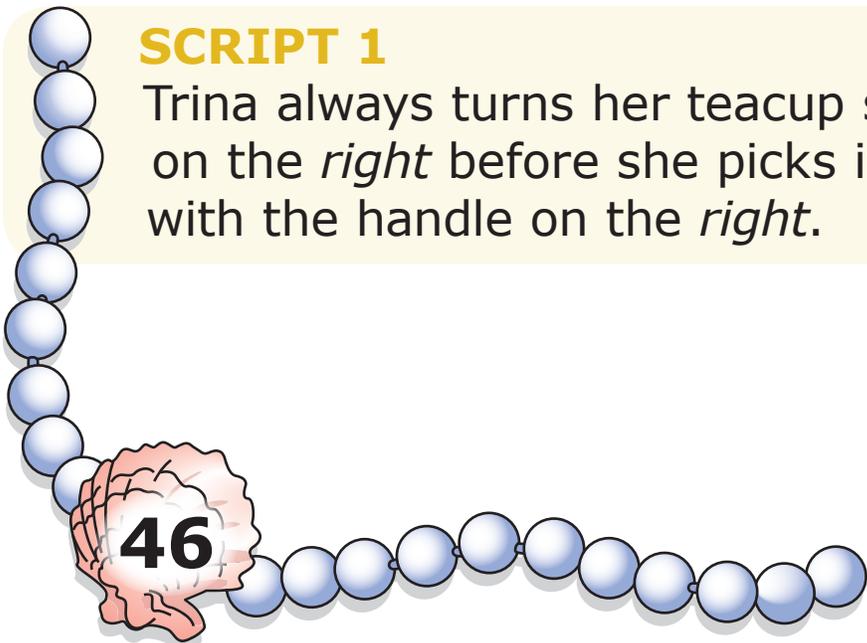
SCRIPT 2

Chloe giggled when her baby brother tried to hang an *upside-down* candy cane on the tree branch. Find an *upside-down* candy cane.

RIGHT PAGE **72**

SCRIPT 1

Trina always turns her teacup so that the handle is on the *right* before she picks it up. Find the teacup with the handle on the *right*.



SCRIPT 2

A doughnut, pretzel, and a gingerbread man cookie are on the snack counter. Hannah wanted the snack to the *right* of the pretzel. Find the snack that is to the *right* of the pretzel.

LEFT PAGE 73

SCRIPT 1

Yvonne laid the triangle to the *left* of the circle. Find a triangle that is to the *left* of a circle.

SCRIPT 2

A screw, a coin, and a key were placed on the table. Was the screw or key placed to the *left* of the coin?

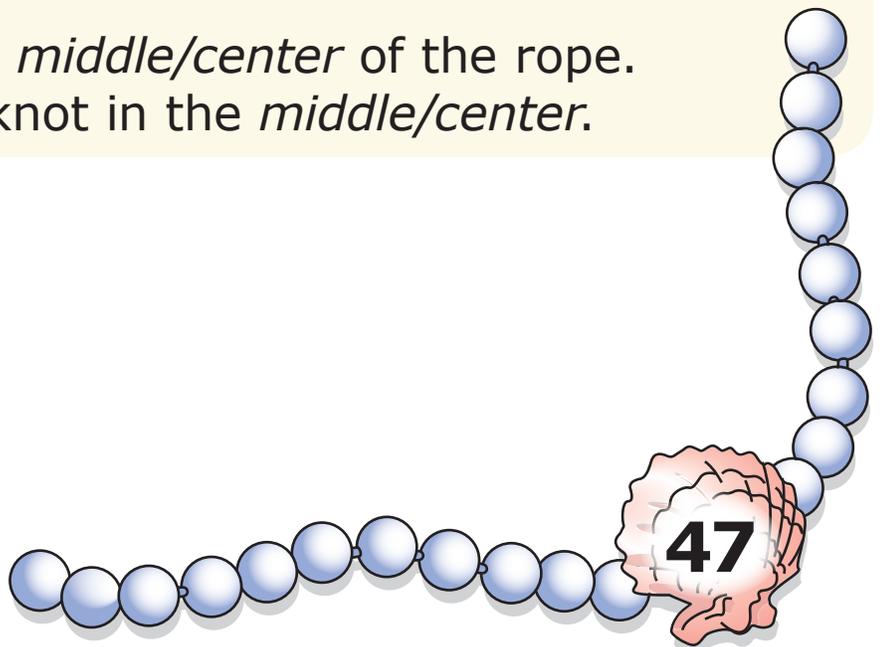
MIDDLE/CENTER PAGE 74

SCRIPT 1

The *middle/center* button on Bradley's sweater was loose. Find the *middle/center* button.

SCRIPT 2

There is a knot in the *middle/center* of the rope. Find the rope with a knot in the *middle/center*.



ROW/LINE PAGE 75

SCRIPT 1

As Abby counted the gumdrops, she placed them in a *row/line*. Find a *row/line* of gumdrops.

SCRIPT 2

The seamstress sewed a *row/line* of tiny satin buttons down the back of the wedding dress. Find a *row/line* of buttons.

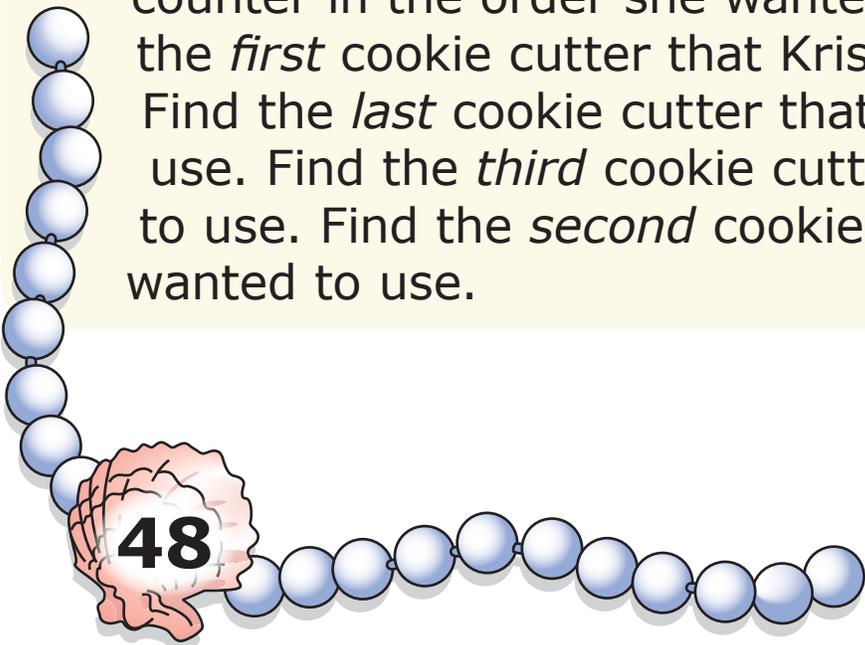
FIRST/SECOND/ THIRD/LAST PAGE 76

SCRIPT 1

Luke laid some seashells in a row on his beach towel. Find the *first* seashell in the row. Find the *second* seashell in the row. Find the *last* seashell in the row. Find the *third* seashell in the row.

SCRIPT 2

From left to right, Kristi put four cookie cutters on the counter in the order she wanted to use them. Find the *first* cookie cutter that Kristi wanted to use. Find the *last* cookie cutter that Kristi wanted to use. Find the *third* cookie cutter that Kristi wanted to use. Find the *second* cookie cutter that Kristi wanted to use.

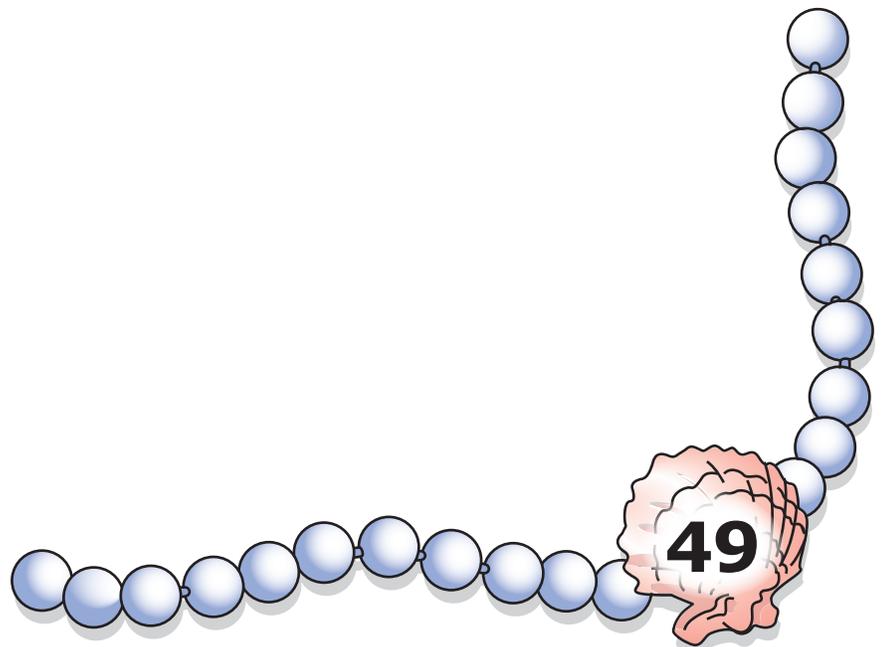


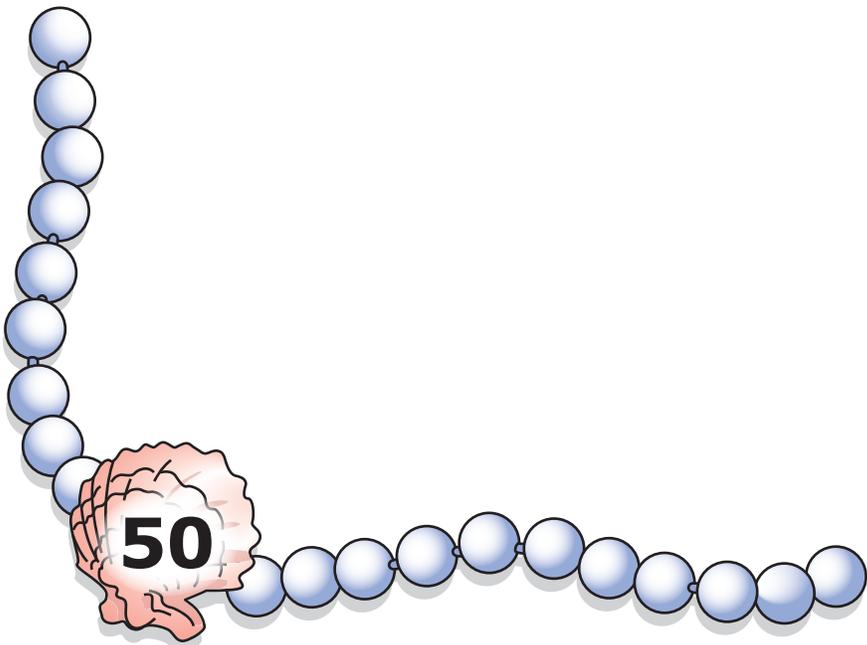
SCRIPT 1

Dean placed his cardboard shapes in a row. Find the shape at the *beginning* of the row. Find the shape at the *end* of the row.

SCRIPT 2

Dominique was thrilled that there was a row of star-shaped stickers next to her name on the classroom chart. Find the star at the *beginning* of the row. Find the star at the *end* of the row.



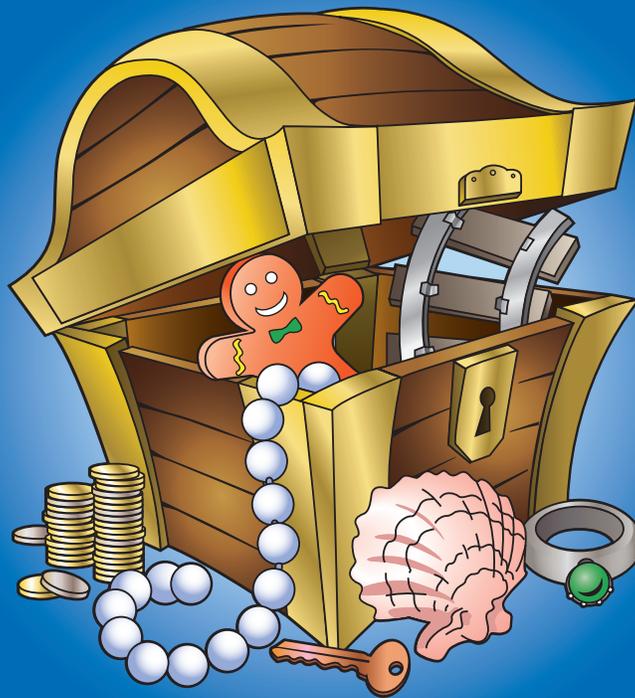


Tactile Treasures

Pre-reading

Top
Bottom
Side
Left
Right

Center
Middle
Corner
Front
Back



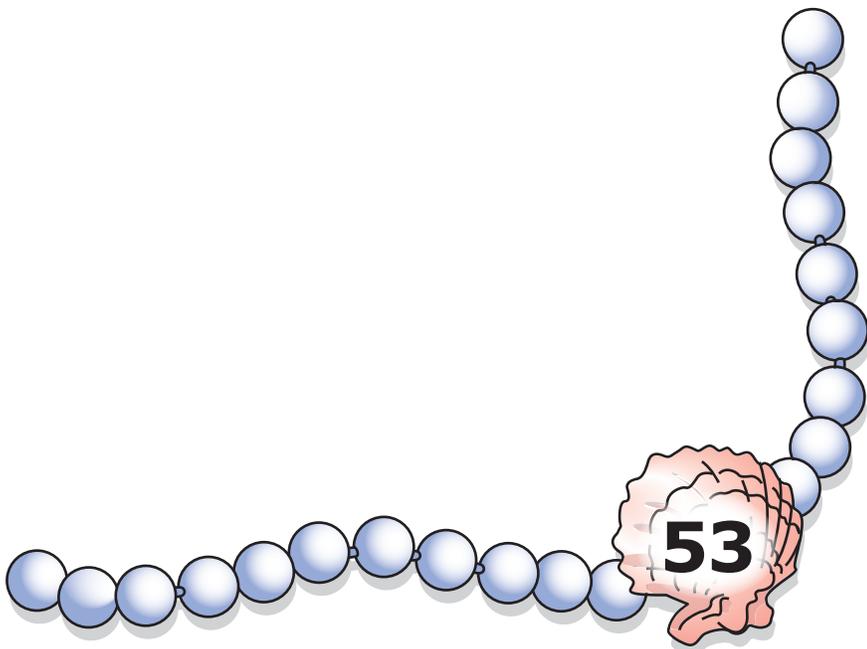
BINDER 3

TOP/BOTTOM/LEFT/RIGHT/ MIDDLE/CENTER/ CORNER/SIDE

PAGE 78

SCRIPT 1

In art class, Bridget made a collage of some of her favorite foods. She glued a Cheerio in each *corner*. Find a Cheerio in each *corner* of the collage. Along the *top* and *bottom* of the collage, she glued M&Ms. Find the M&Ms along the *top* of the collage. Find the M&Ms along the *bottom* of the collage. Along the *right* and *left* sides, she glued macaroni. Find the macaroni along the *left* side of the collage. Find the macaroni along the *right* side of the collage. She glued a pretzel in the *center/middle* of the collage. Find the pretzel in the *center/middle* of the collage.



TOP/BOTTOM/LEFT/RIGHT/ MIDDLE/CENTER/ CORNER/SIDE

PAGE 79

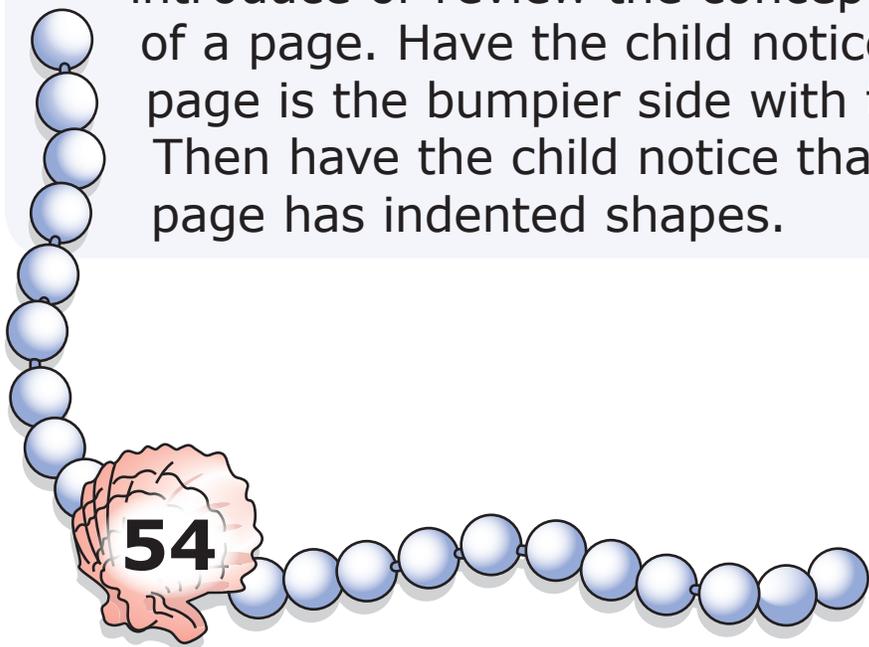
SCRIPT 2

Jeremy designed his own gift wrapping paper by decorating it with different shapes. He put a circle in each *corner* of the paper. Find a circle in each *corner* of the paper. He then added some triangles along the *top* and *bottom* of the page. Find the triangles along the *bottom* of the page. Find the triangles along the *top* of the page. Next he decorated the *right* and *left* sides of the paper with squares. Find the squares along the *left* side of the paper. Find the squares along the *right* side of the paper. He finished by putting a diamond in the *middle/center* of the paper. Find the diamond in the *middle/center* of the paper.

FRONT/BACK

PAGES 78–79

Using either of the “Pre-Reading” tactile pages, introduce or review the concepts of *front* and *back* of a page. Have the child notice that the *front* of the page is the bumpier side with the raised pictures. Then have the child notice that the *back* of the page has indented shapes.



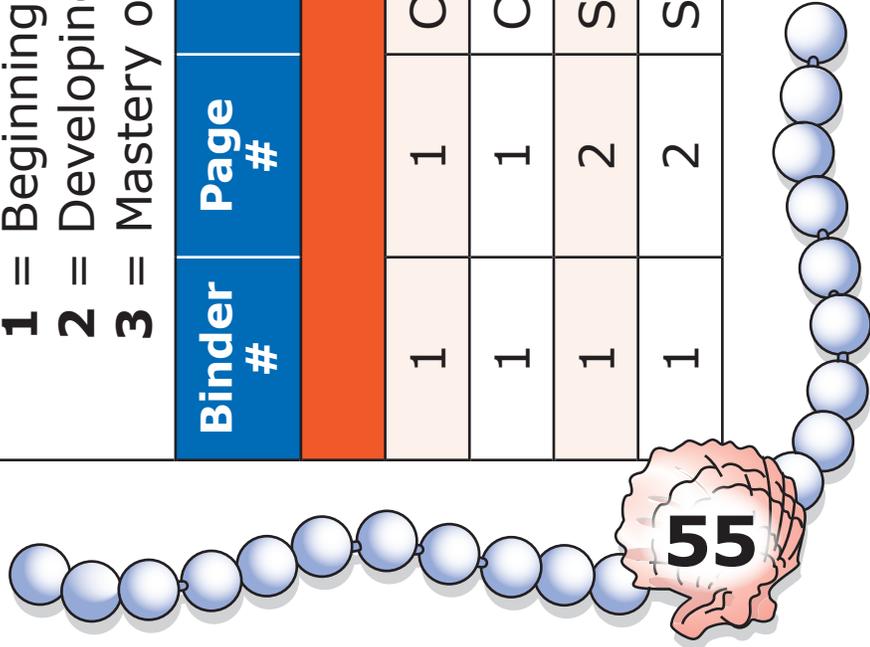
TACTILE TREASURES CHECKLIST OF CONCEPTS

Student's Name:
Date:

Use the following rating scale to indicate the student's current knowledge of each concept:

- 1** = Beginning knowledge of concept
- 2** = Developing knowledge of concept
- 3** = Mastery of concept

Binder #	Page #	Concept	1	2	3	Comments
SHAPE						
1	1	Circle				
1	1	Circle				
1	2	Square				
1	2	Square				

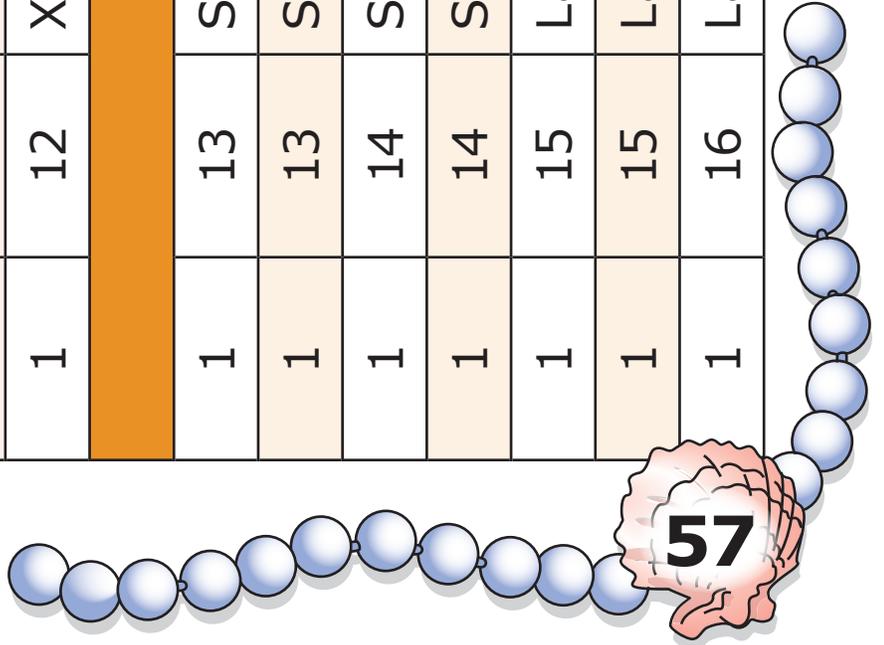


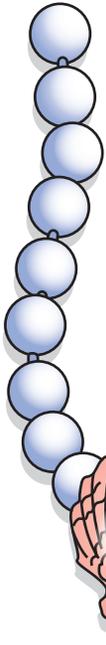
Shape continued

1	3	Triangle					
1	3	Triangle					
1	4	Rectangle					
1	4	Rectangle					
1	5	Oval					
1	5	Oval					
1	6	Star					
1	6	Star					
1	7	Heart					
1	7	Heart					
1	8	Diamond					
1	8	Diamond					
1	9	Straight					
1	9	Straight					

Shape continued

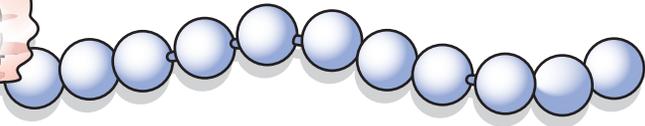
1	10	Curved				
1	10	Curved				
1	11	Underlined				
1	11	Underlined				
1	12	X (shape)				
1	12	X (shape)				
SIZE						
1	13	Smaller				
1	13	Smaller				
1	14	Smallest				
1	14	Smallest				
1	15	Larger/Bigger				
1	15	Larger/Bigger				
1	16	Largest/Biggest				





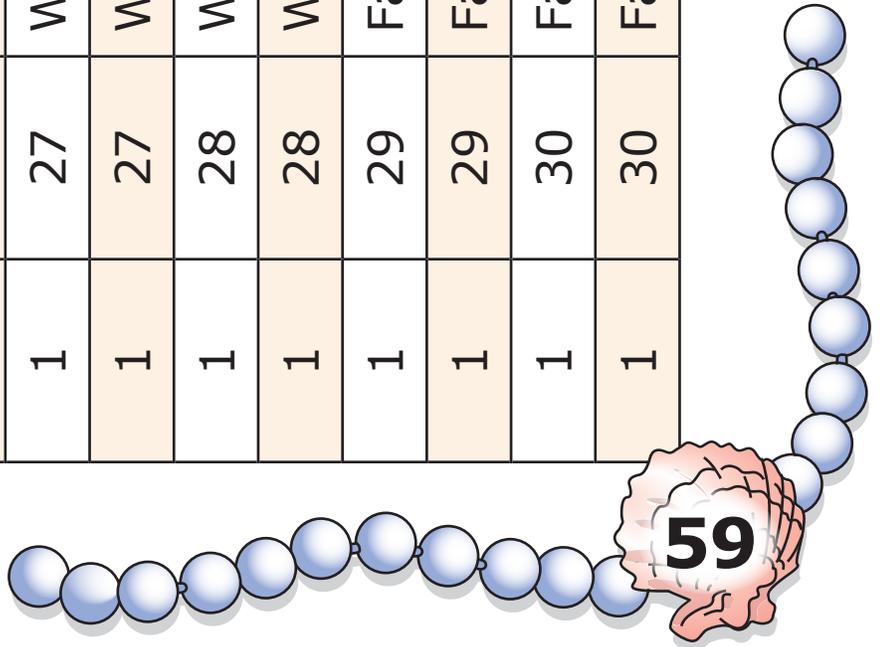
Size continued

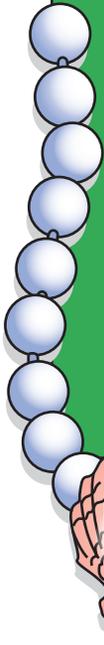
1	16	Largest/Biggest				
1	17	Medium-Sized				
1	17	Medium-Sized				
1	18	Longer				
1	18	Longer				
1	19	Longest				
1	20	Longest				
1	21	Shorter				
1	21	Shorter				
1	22	Shortest				
1	22	Shortest				
1	23	Taller				
1	23	Taller				
1	24	Tallest				



Size continued

1	24	Tallest					
1	25	Thinner					
1	25	Thinner					
1	26	Thinnest					
1	26	Thinnest					
1	27	Wider					
1	27	Wider					
1	28	Widest					
1	28	Widest					
1	29	Fatter					
1	29	Fatter					
1	30	Fattest					
1	30	Fattest					





COMPARISON

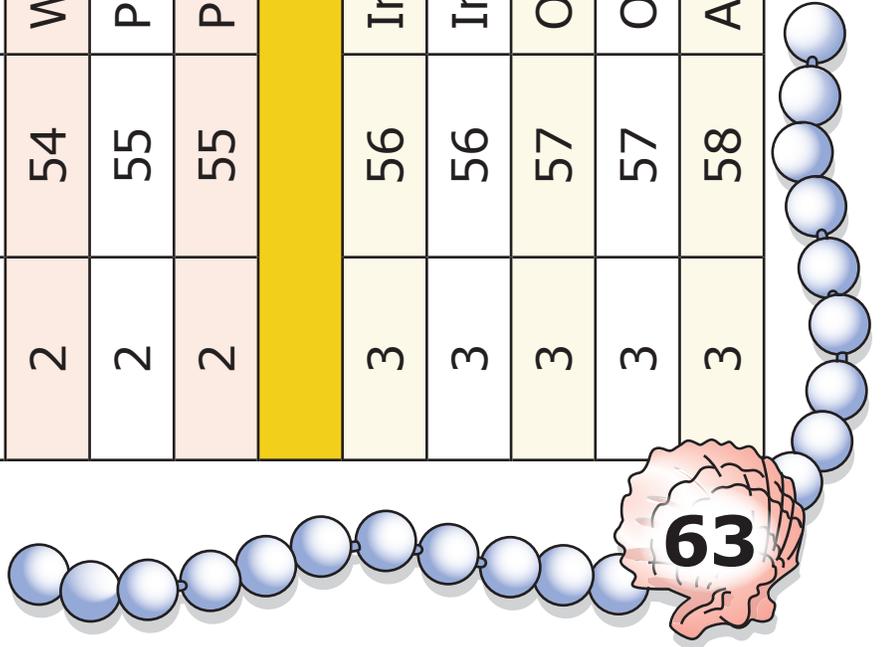
2	31	Same					
2	31	Same					
2	32	Different					
2	32	Different					
2	33	Alike					
2	33	Alike					
2	34	Match					
2	34	Match					
2	35	With					
2	35	With					
2	36	Without					
2	36	Without					
2	37	Other					
2	37	Other					

Amount continued

2	45	Several						
2	45	Several						
2	46	Few						
2	46	Few						
2	47	Every						
2	47	Every						
2	48	All						
2	48	All						
2	49	None						
2	49	None						
2	50	Equal						
2	50	Equal						
2	51	Unequal						
2	51	Unequal						

Amount continued

2	52	Almost					
2	52	Almost					
2	53	Half					
2	53	Half					
2	54	Whole					
2	54	Whole					
2	55	Pair					
2	55	Pair					
POSITION							
3	56	Inside					
3	56	Inside					
3	57	Outside					
3	57	Outside					
3	58	Around					

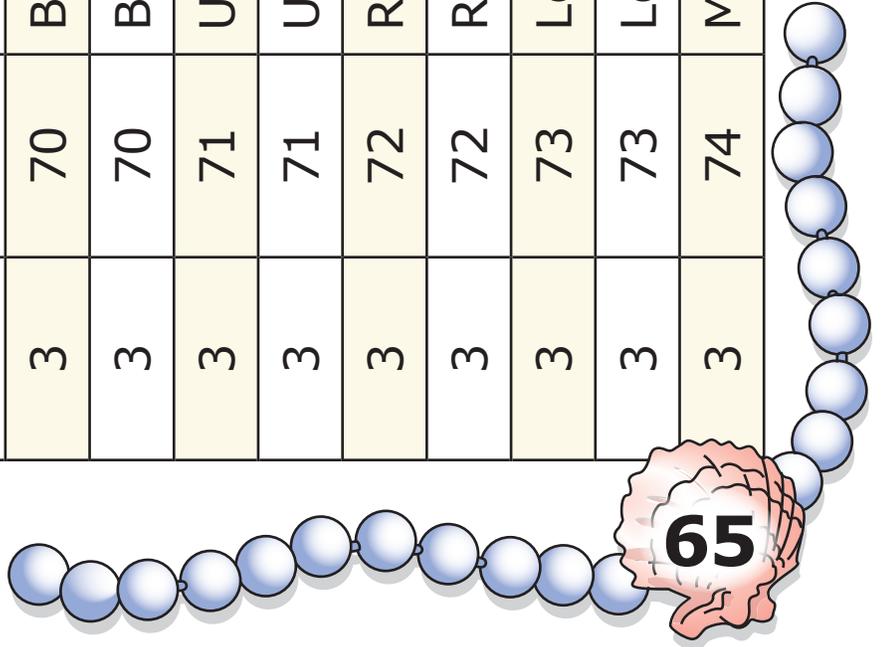


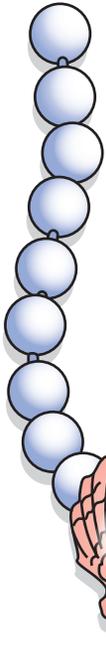
Position continued

3	58	Around					
3	59	Over/Above					
3	59	Over/Above					
3	60	Under/Below					
3	60	Under/Below					
3	61	Between					
3	61	Between					
3	62	Through					
3	62	Through					
3	63	Away From					
3	64	Away From					
3	65	Next to/Beside					
3	65	Next to/Beside					
3	66	Nearest/Farthest					

Position continued

3	67	Nearest/Farthest				
3	68	Separated				
3	68	Separated				
3	69	Top				
3	69	Top				
3	70	Bottom				
3	70	Bottom				
3	71	Upside Down				
3	71	Upside Down				
3	72	Right				
3	72	Right				
3	73	Left				
3	73	Left				
3	74	Middle/Center				





Position continued

3	74	Middle/Center					
3	75	Row/Line					
3	75	Row/Line					
3	76	1st/2nd/3rd/Last					
3	76	1st/2nd/3rd/Last					
3	77	Beginning/End					
3	77	Beginning/End					
PRE-READING							
3	78	Variety of Positional Concepts (top/bottom/left/ right/middle/center/ corner/side/front/ back)					

Pre-reading continued

3	79	Variety of Positional Concepts (top/bottom/left/right/middle/center/corner/side/front/back)				
---	----	---	--	--	--	--

