

Isabel the Inventor

Extension Activities

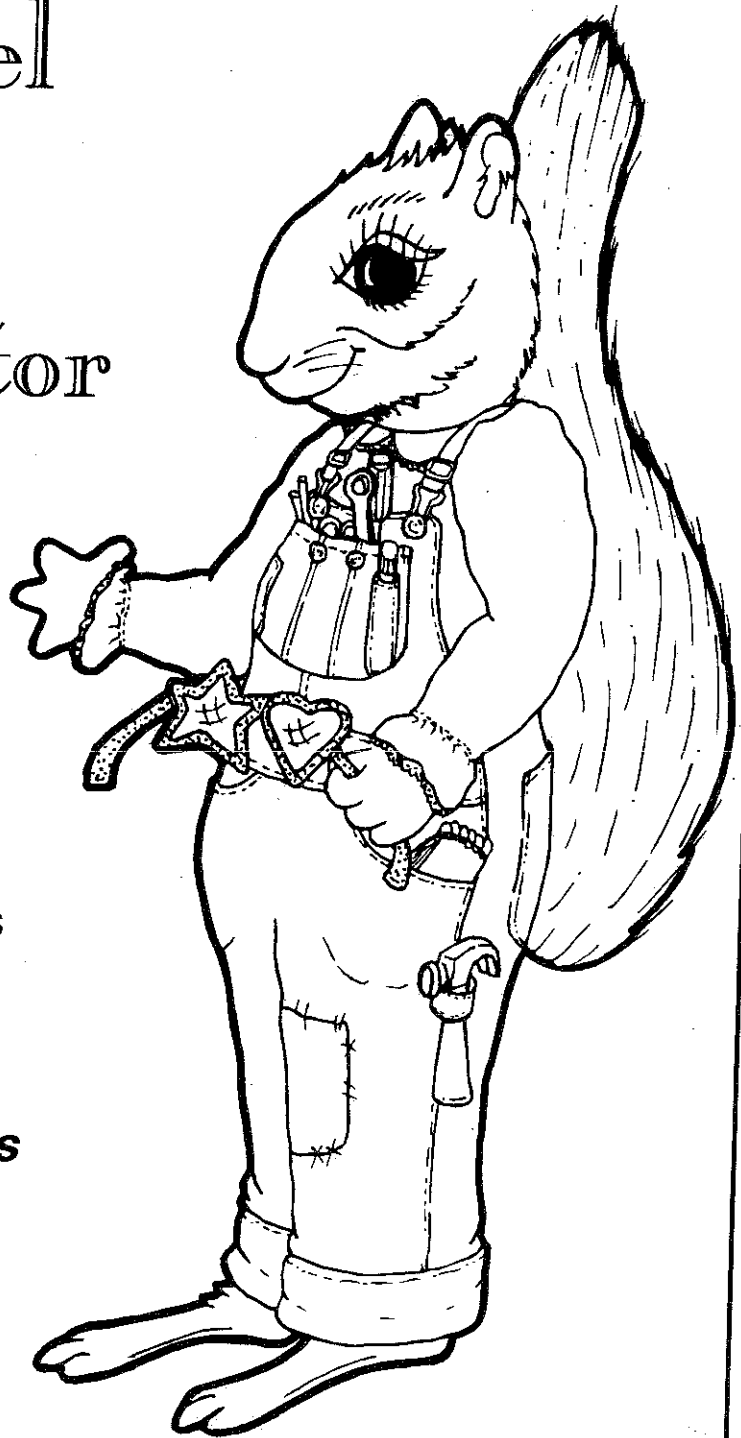
Activity Name/Number	Point Value
1. Doodle Cards	5 points
2. The Apple	10 points
3. Make a Box	15 points
4. A Date with a Plate	10 points
5. Word Wiz (PETS)	20 points
6. Things that go UP and DOWN (PETS)	15 points
7. The Whatchmacalit	20 points
8. Here are the Answers, What are the Questions	20 points
9. What ifstory starters	15 points
10. Yolanda's Cycle	10 points
11. Read a Book...Roll a Question Cube	10 points
12. #52 PS- Fiona's Puzzle	5 points
13. #53 PS- Baby Chicks	5 points
14. #54 PS – Marne's Puzzle	10 points
15. # 52 PS2 –Reese's Puzzle	15 points
16. # 53 PS2 – Heather and Faith Checkers	15 points
17. # 54 PS2 – Secret Message	15 points
18. It's Not a Hammer	10 points
19. Circle Map- brainstorm all the ways to make 5	5 points
20. Books to Fuel Creative Thinking (see book list)	10 points



Student Recording Sheet
Isabel the Inventor – Divergent or Inventive Thinking

[illegible]

Isabel the Inventor



... Brainstorms

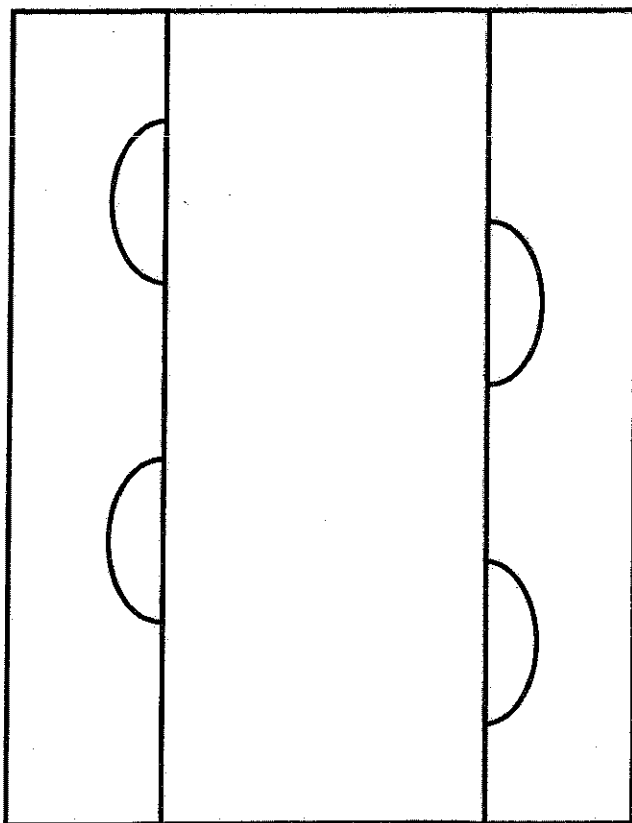
... To find

lots and lots

of answers

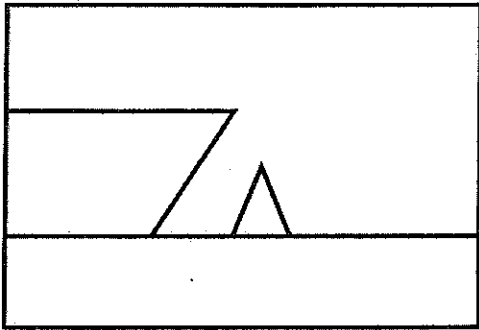
DOODLES

WHAT COULD THIS PICTURE BE?

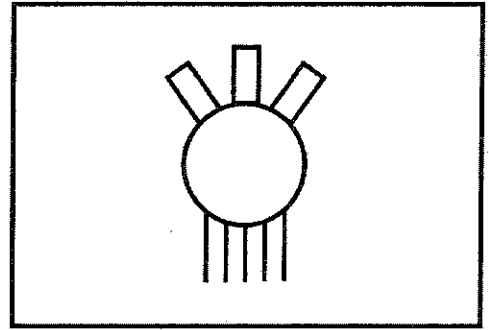


Doodle Cards

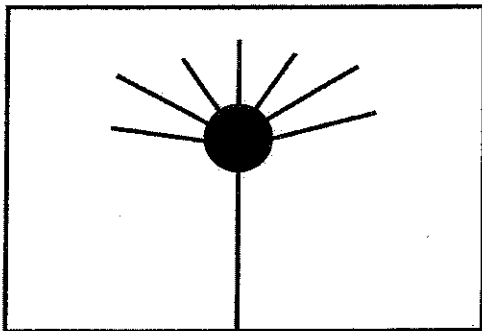
1.



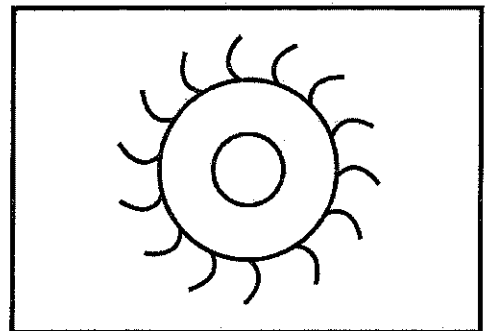
2.



3.

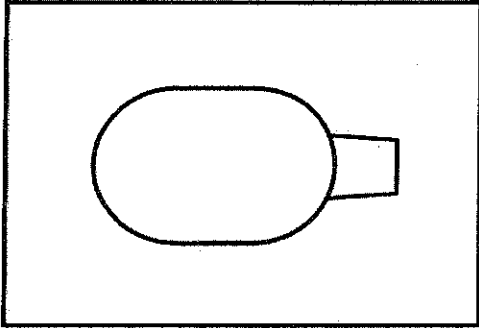


4.

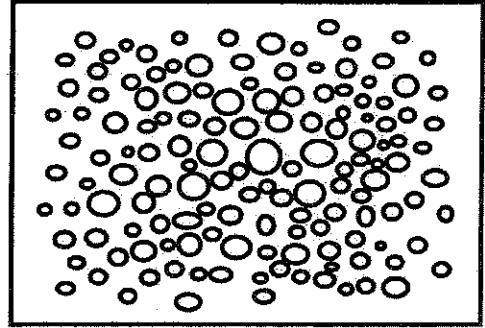


Doodle Cards (Continued)

5.

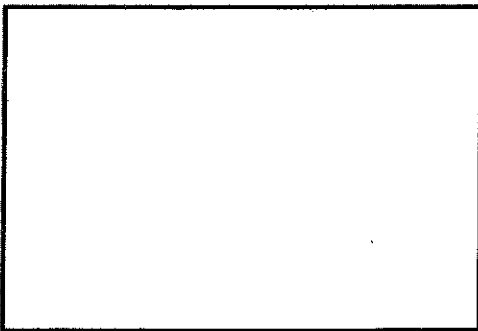


6.

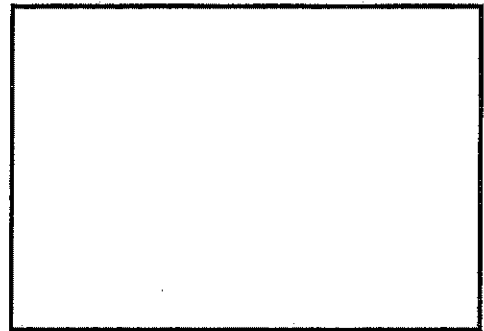


Create your own!

7.



8.



The Apple

About this center...

What we are after in this center is fluency of ideas. By using the apple as a constant, children are prompted to come from various directions to arrive at their answers.

Materials needed...

paper, pencil, creative brain

Directions to students...

Think of an apple. Then write your answers on your own paper.

1. Name three things that are heavier than an apple.
2. Name three things that are lighter than an apple.
3. Name three things that are rounder than an apple.
4. Name three things that are sweeter than an apple.
5. Name three things that are harder than an apple.
6. Name three things that are smaller than an apple.
7. Name three things that have thicker skin than an apple.
8. Name three things you could balance on top of an apple.
9. Name three things that are as red as an apple.
10. Name three things that would break if you dropped an apple on them.
11. Name three things you could hide under an apple.
12. Name one thing that could *eat* an apple.

Comment...

The centerpiece of this challenge is the apple, but don't have a real apple available at the center. The point is for students to handle solutions to this activity in their heads!

Make a Box!

About this center...

There are times you should ask a student to do something which may elicit the response, "I can't." Your answer should be, "Yes, you can." If this box project teaches students nothing else, it will teach them to make the best of a tough situation. Get set for some ungainly boxes, and tell your students you can't make a perfect one either. *Note:* The boxes should not have lids. The projects in Step 2 would not work well if they did.

Materials needed.....

Plenty of cellophane tape, scissors, ruler, pencil, construction paper. Tagboard for sign.

Directions to students...

Step 1

Your first job is to make a box. You can make it in any way you like, but you can use just one piece of paper. You can use the tape, scissors, ruler, and pencil however you wish. After you have made your box, go on to Step 2.

Step 2

Now that you have a box, find some way to turn it into one of the things listed below. You can use other paper and marker pens if you wish.

A house

A wagon with someone riding in it

A basket with food in it

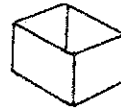
A car or truck

Comment.....

Many children will tackle this problem by cutting out a bottom and then putting the sides on one at a time. Let them! After the project is completed, it might be interesting to bring a couple of commercial boxes to class and take them apart to see how they were made (or you can show them how to make the boxes that have been drawn here).

MAKE A FREEHAND DRAWING
OF A BOX FOR THIS CENTER.
DON'T PROVIDE AN ACTUAL
BOX FOR CHILDREN TO SEE.

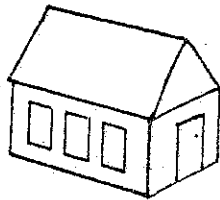
MAKE
A
BOX!



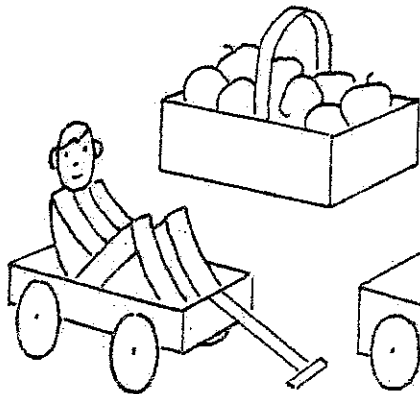
DIRECTIONS

TAGBOARD →

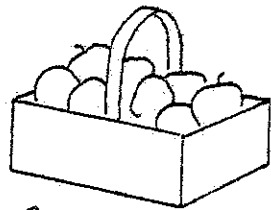
THERE ARE LOTS OF WAYS TO HANDLE THE SECOND
PART OF THIS CENTER. HERE ARE A FEW IDEAS.



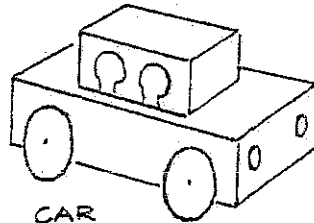
HOUSE



WAGON

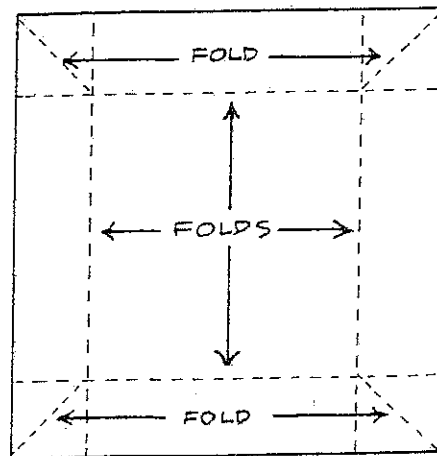
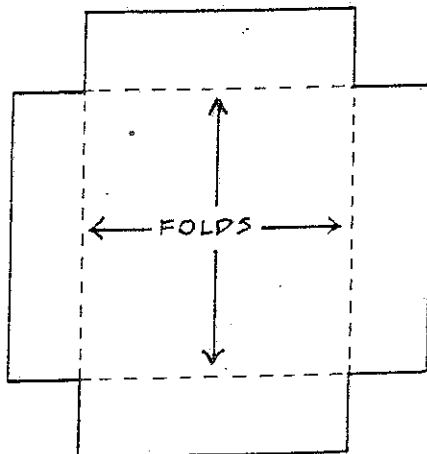


BASKET



CAR

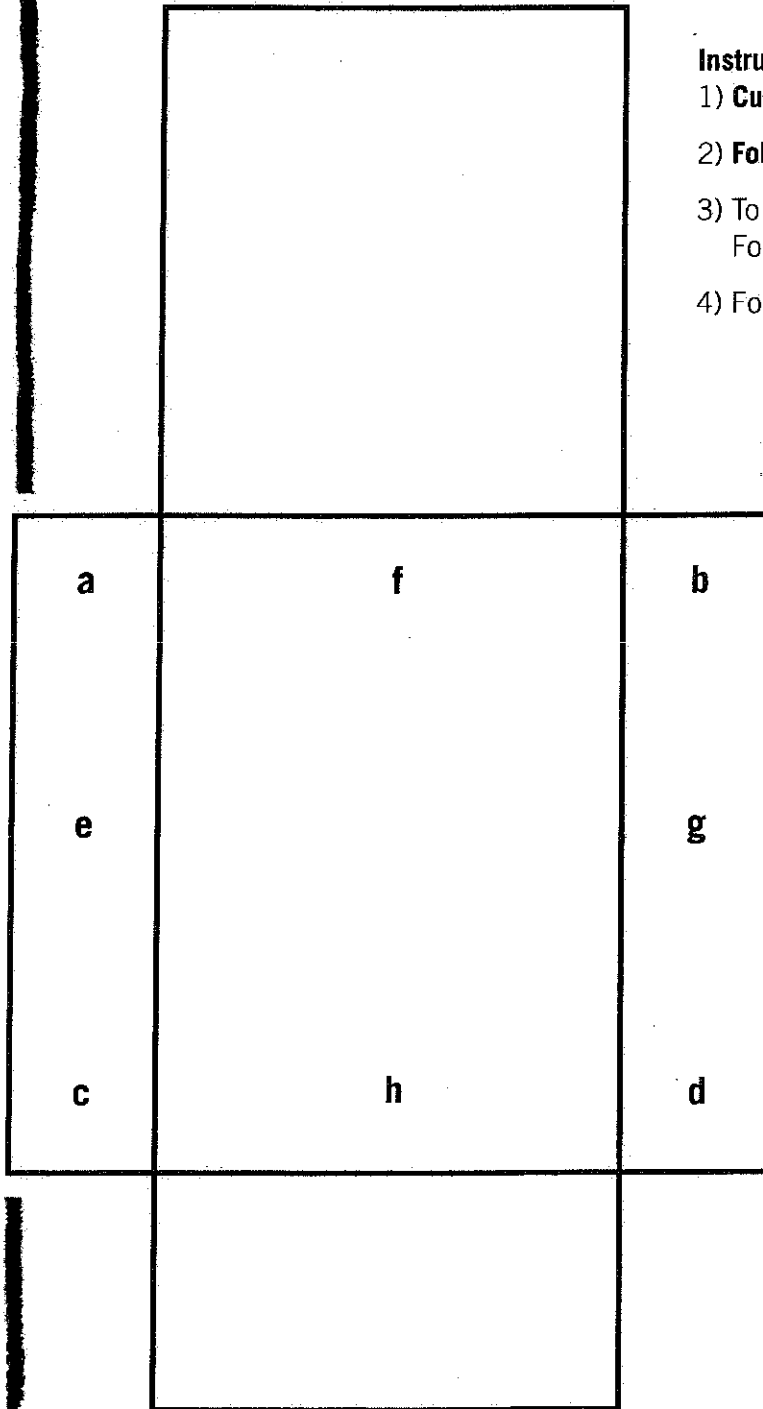
HERE ARE A COUPLE OF
SIMPLE BOXES YOU CAN MAKE ...



Make Your Own Not-a-Box!

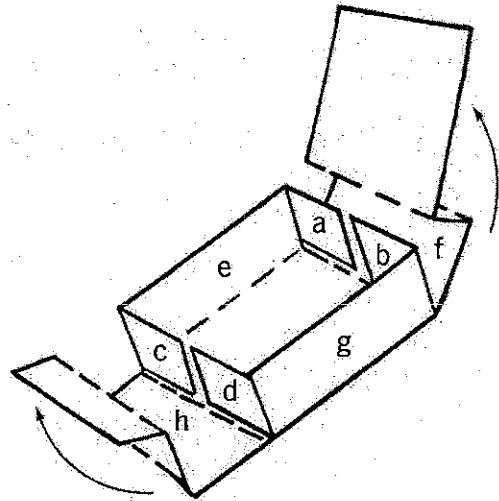
Use two copies of the template and instructions on this page to make your own not-a-box, then decorate it however you like!

(Activity Coordinator: be sure make two copies of this page for each participant.)




Instructions (requires adult assistance):

- 1) **Cut** along the solid lines.
- 2) **Fold** along dotted lines.
- 3) To create the bottom of the box:
Fold up the four corner flaps (a, b, c, d).
- 4) Fold in the side pieces (e, f, g, h).



- 5) Fold the shorter side up and over the sides of your box, tucking the crease down into the fold at the bottom of the box.
- 6) Fold the longer side in the same way so that the last flap becomes the bottom of the box.
- 7) Using the second copy of the template, repeat steps 1 through 6 for the top of the box.
- 8) Decorate your Not-a-Box!

 HarperCollinsChildren'sBooks

www.harpercollinschildrens.com

Permission to reproduce and distribute this page has been granted by the copyright holder, HarperCollins Publishers. All rights reserved.

Illustrations © 2007 by Antoinette Portis

A Date with a Plate

About this center...

Since a paper plate is concave rather than flat, it will be somewhat difficult for children to work with. That difficulty is the real point of this center, for the process of making uncooperative material "behave" requires thought, patience and imagination. The two subjects — elephant and fish — have been chosen because they have characteristics (trunk, fins or tail) that have something to do with the fluted edge of the plate. An astute child should notice this and will probably try to take advantage of it.

Materials needed....

Inexpensive paper plates with fluted edges (two for each child), cellophane or masking tape, felt markers. Tagboard and extra plate for sign.

Directions to students...

Your job today: Using just one paper plate for each thing, make...

1. an elephant's head.
2. a fish.

Here are some rules.

- Use one plate for each thing you make.
- You must cut the plate apart in some way and put the pieces together with the tape.
- You must use at least three pieces of the plate for each thing you make.
- You must use most of the plate.
- You cannot just make a drawing on the plate and cut it out.
- You can use the markers in any way you wish — but only after you have finished cutting and taping.

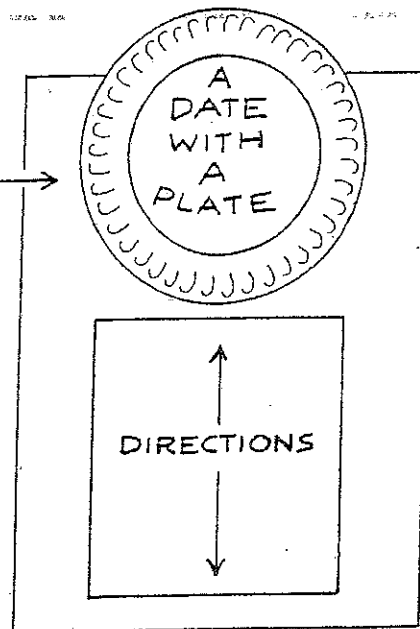
— Good luck!

Comment...

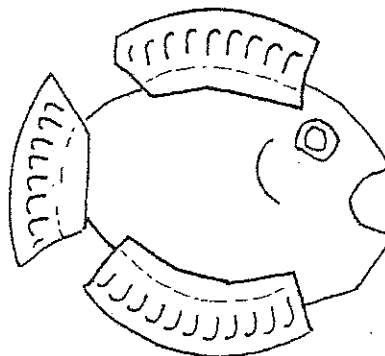
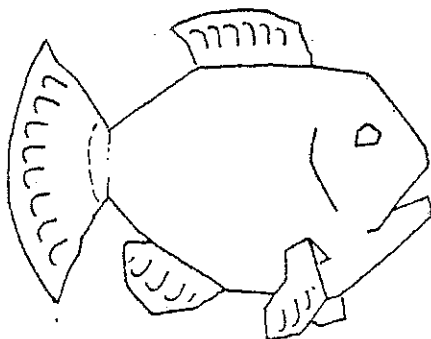
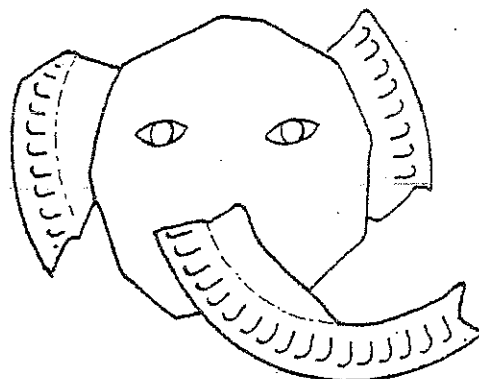
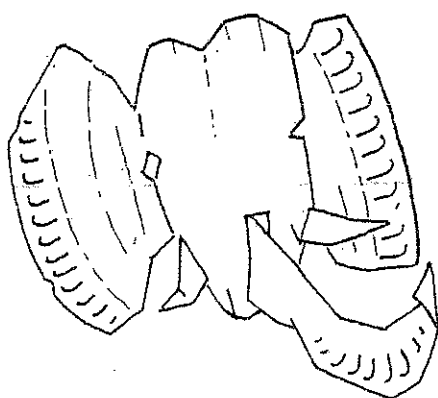
Remember, what we're after here is not art with a capital A, but thinking with a capital T. When everyone has finished, display the work fearlessly. Your displays will be light years ahead of those boring hand turkeys!

LETTER THE CENTER TITLE
ON A REAL PAPER PLATE
AND GLUE TO TAGBOARD.

NOTE: TRY TO DISCOURAGE
COPYING BY PUTTING THE
FINISHED PROJECTS AWAY
UNTIL EVERYONE HAS HAD
A CHANCE TO DO THIS...



THE DRAWINGS BELOW WERE ADAPTED FROM COMPLETED
PROJECTS. NOTE THE INTERESTING SCULPTURAL QUAL-
ITY OF THE EXAMPLES ON THE LEFT...





WORD WIZ

--

Fluency (1 pt)	Flexibility (1 pt)	Originality (3 pts)
Divergent Thinking Total		



WORD WIZ

fish

fish stick

fishing rod

fly fishing

sailfish

fish & chips

fishing lure

fish tale

fish hook

fish fry

fish scale

Go Fish

fish tail

sounds fishy to me

fishing for a compliment

fishing derby

selfish

Fluency (1 pt)	Flexibility (1 pt)	Originality (3 pts)
Divergent Thinking Total		

WORD WIZ CARDS



circle	chip	bag
star	watch	ship
high	ring	space
rose	key	top
note	land	night
net	line	can



Name _____

Things That Go Up & Down

Help Isabel and Yolanda brainstorm things that go up and down.
List your ideas below.

a yo-yo

your weight





Give this invention a name
and help Yolanda tell about
all that it can do!

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Here Are The Answers ... What Were The Questions???



Because it's so tall.

1

Every time the wind blows.

2

While it's still wet.

3

Anything that is soft.

4

After the stars come out.

5

Only if it is covered in peanut butter.

6

About 300 pounds and very angry.

7

Only when I sneeze.

8

Because the glue has not set yet.

9

Over the first, under the second, and keep right on going.

10

Yesterday, quite by accident, we ended up right in the middle of Isabel the Inventor's newest chain-reaction contraption, "The Super Thing-A-Ma-Jig." I don't mind telling you that it took a whole lot of powerful thinking to escape to tell this tale ...



What If ...

2.

1.

What If ...



One day while exploring in my attic, I found a funny-looking cabinet. The doors were stuck shut as though it hadn't been opened in many years. When I gave the handle a really hard yank ...

The other day in Crystal Pond Woods,
Yolanda the Yarnspinner woke up to
find more strange goings-on than she
has legs! A mysterious package had
suddenly appeared at Max the
Magician's house ...



What If ...

4.

3.

What If ...



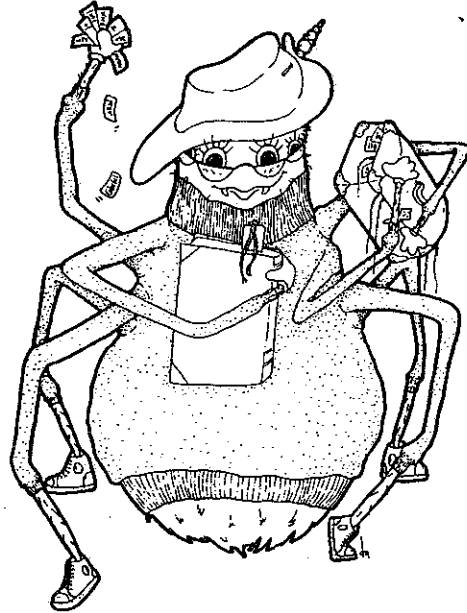
You know what they say about
uncorking a genie from a bottle. I
never believed that could really be
true until ...



Name _____

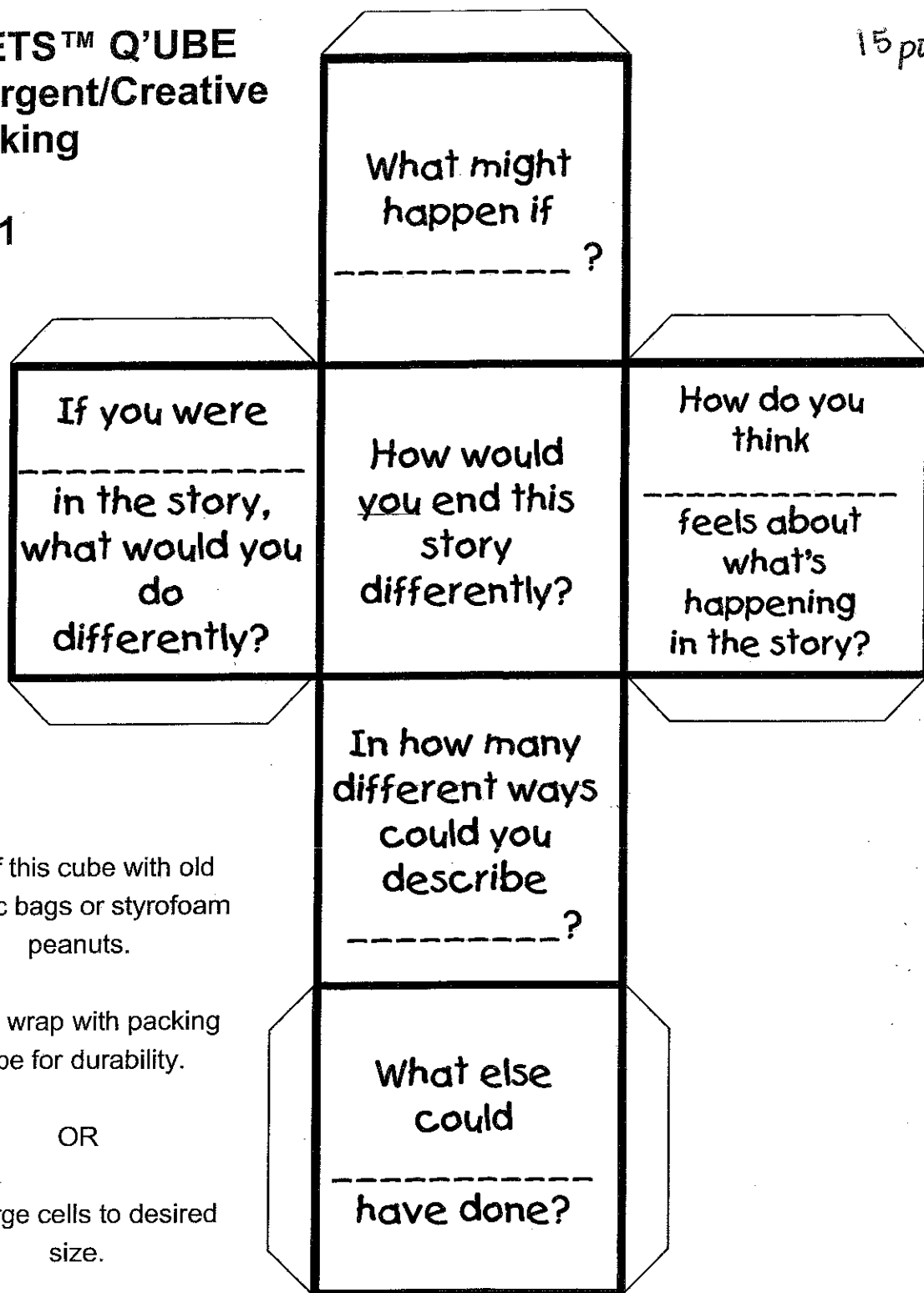
Yolanda's Cycle

Your **b**icycle has 2 wheels and 2 pedals. Help Isabel the Inventor design a new **spicycle** for her friend, Yolanda. Remember — Yolanda's a spider and has 8 legs!



A PETS™ Q'UBE Divergent/Creative Thinking

Tier 1



Stuff this cube with old plastic bags or styrofoam peanuts.

Then wrap with packing tape for durability.

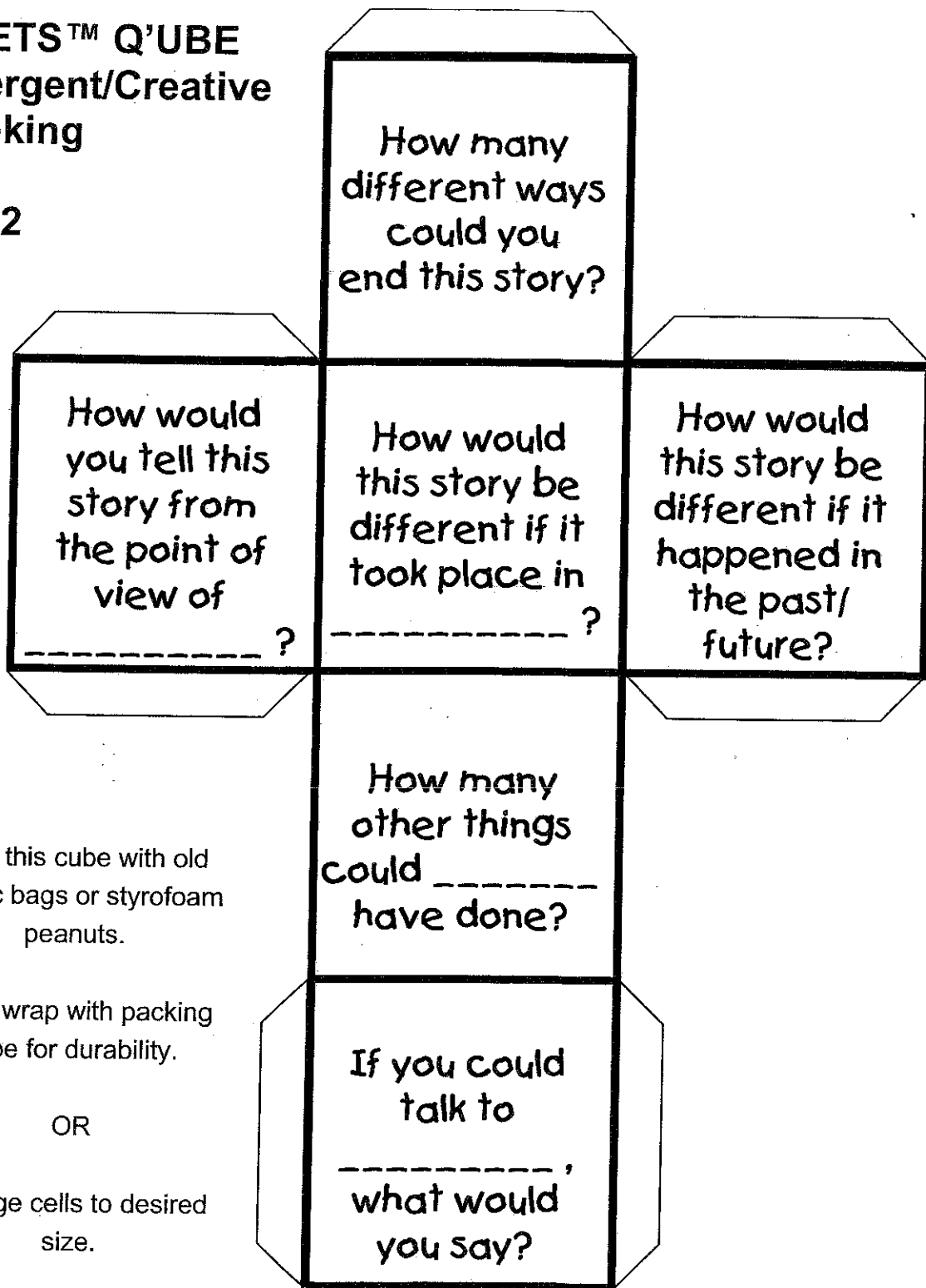
OR

Enlarge cells to desired size.

Cut out and glue to the sides of a larger cardboard box.

A PETS™ Q'UBE Divergent/Creative Thinking

Tier 2



Stuff this cube with old plastic bags or styrofoam peanuts.

Then wrap with packing tape for durability.

OR

Enlarge cells to desired size.

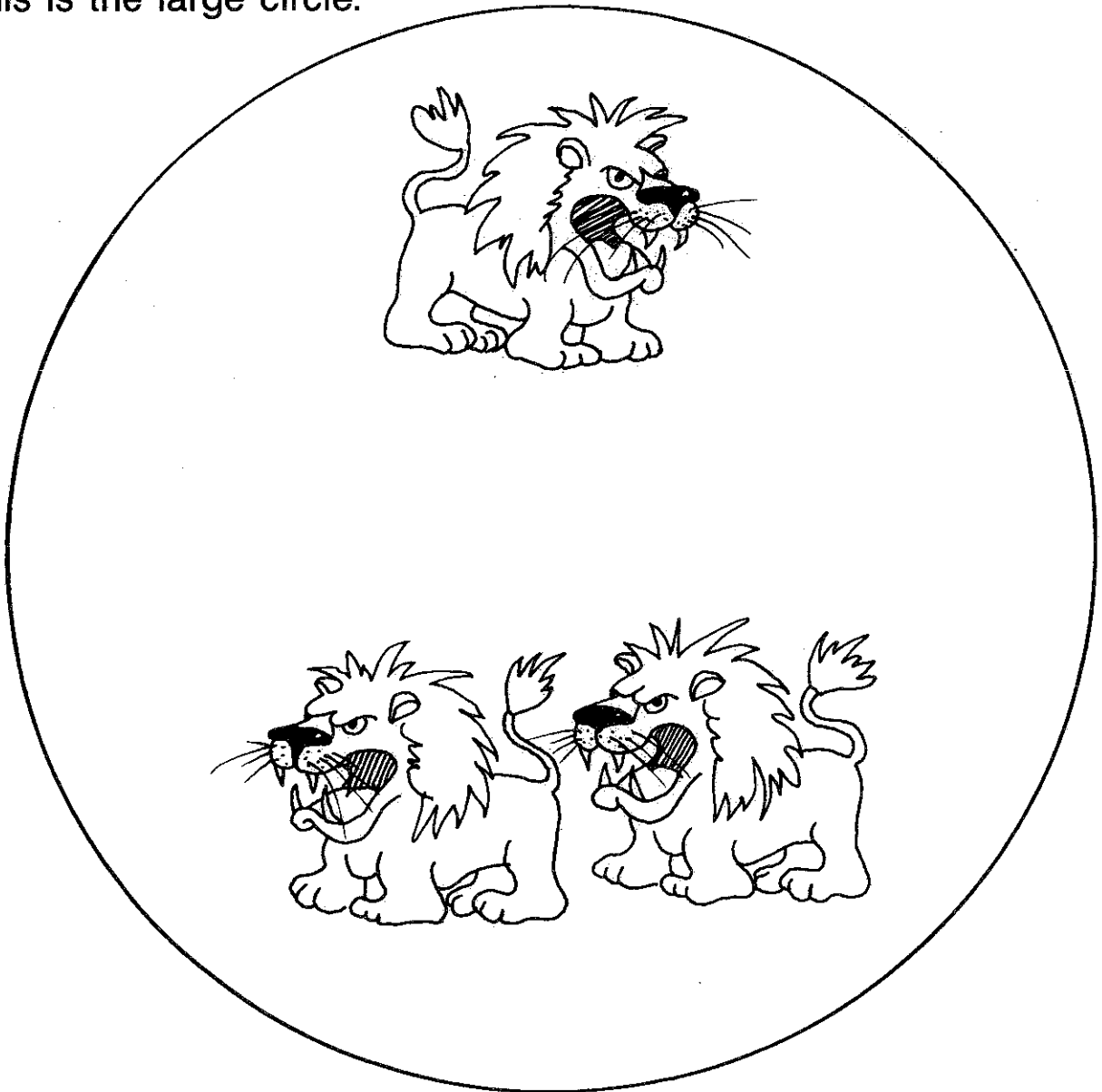
Cut out and glue to the sides of a larger cardboard box.



- 52** Fiona is giving you a puzzle to solve. She says, "There are 2 circles on the floor. One circle is large. The other circle is small. There are 3 lions in the large circle. There are 2 lions in the small circle. But, there are only 3 lions in all. Where is the small circle, and where are the lions?"

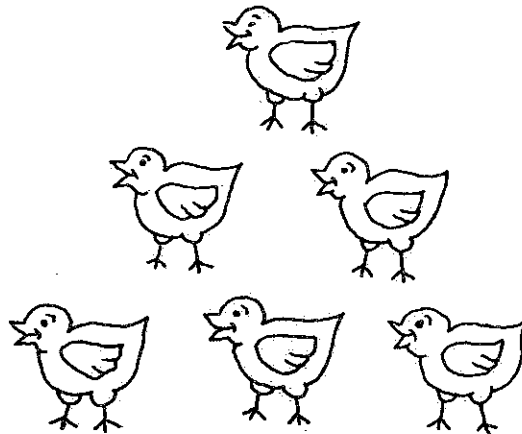
Draw the small circle.

This is the large circle.

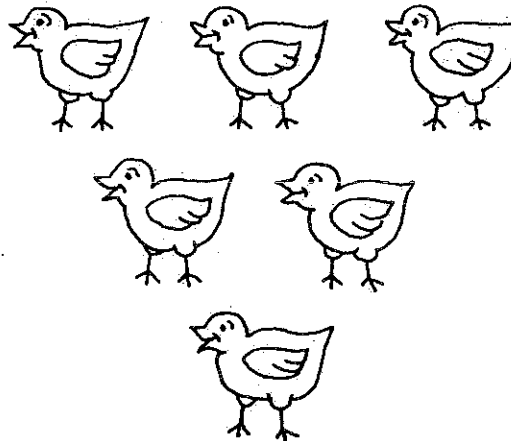




- 53** Look at this group of baby chicks. It looks like a triangle pointing up to the top of the page.



Now look at the chicks again. Only 2 chicks have moved. But now the group looks like a triangle pointing down to the bottom of the page. Which 2 chicks moved?



In both pictures, color the chicks that moved.



- 54** Marne is giving you a puzzle to solve. He says, "I saw a trail of snails in my garden. There were 2 snails behind a snail and 2 snails in front of a snail. There was a snail between 2 snails, too. What is the least number of snails there could be in that trail?"

Write the number. _____



**52**

Reese is giving you a puzzle to solve. He says, "It weighs nothing. It can be seen. If it is put in a can, it makes the can weigh less. What is it?"

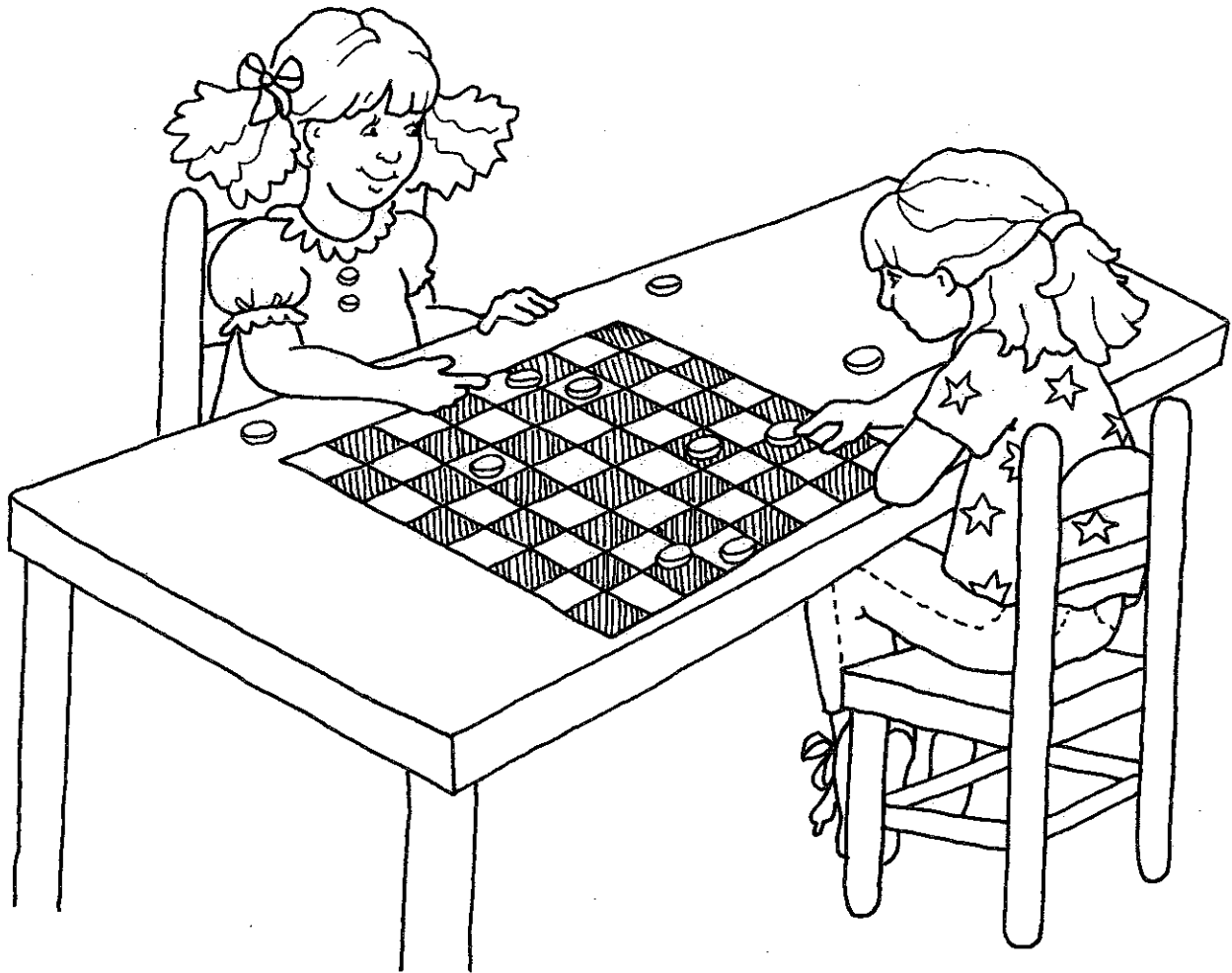
Write its name. _____





- 53** Heather and Faith are very good checkers players. They played 5 games of checkers. Heather and Faith both won the same number of games. How can that be?

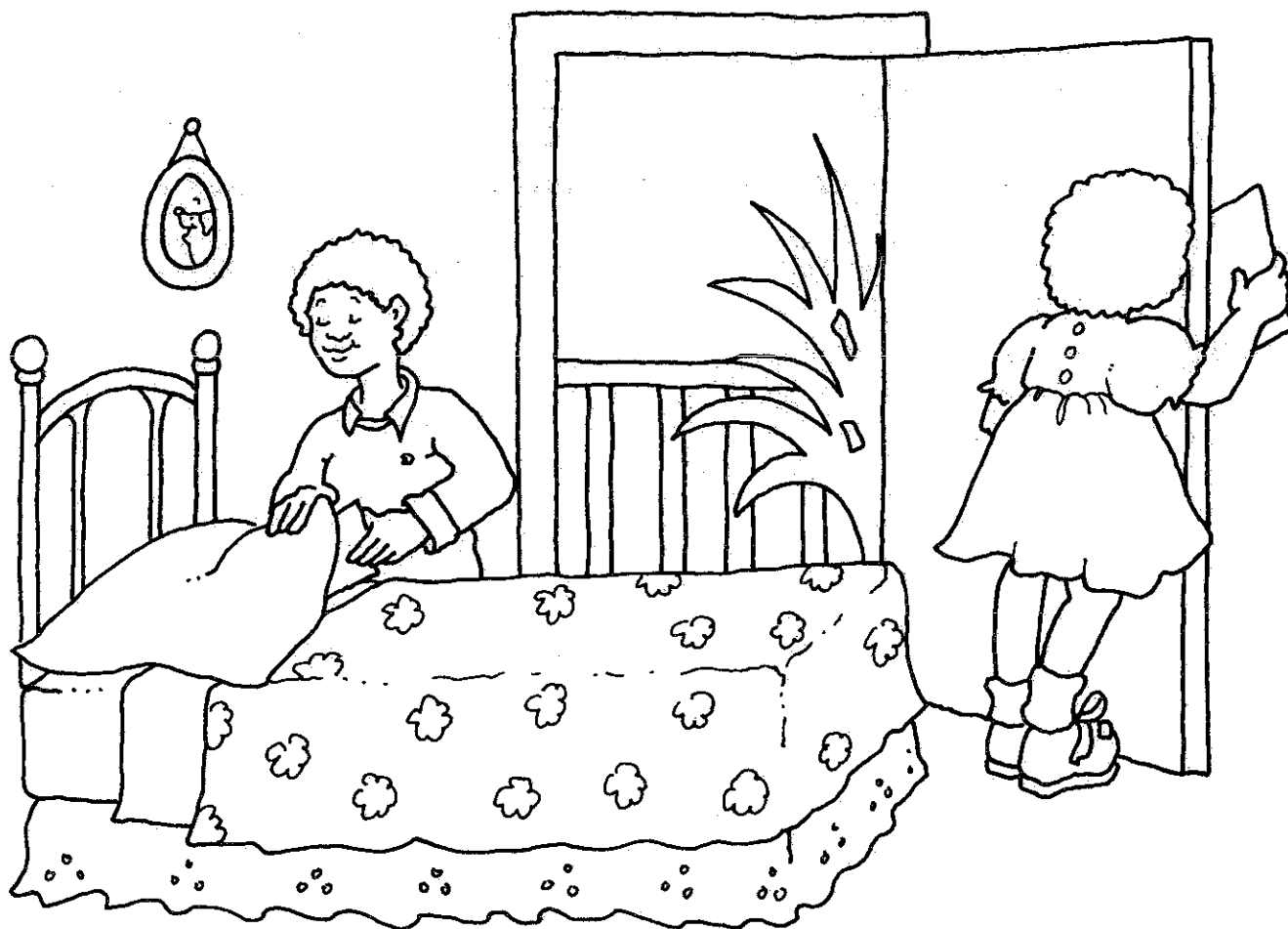
Write the answer. _____



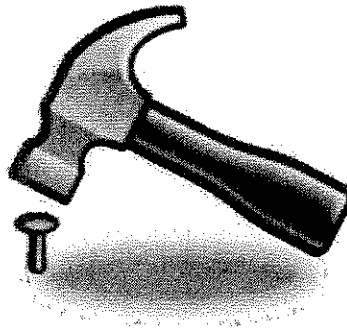


- 54** You can hide a secret message under a pillow. You can hide a note behind a door. You can't hide a note between pages 21 and 22 in most books. Why not?

Write the answer. _____



It's Not a Hammer!

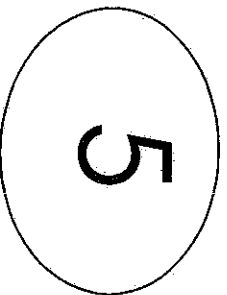


Use your imagination to create new uses for this ordinary, everyday object.

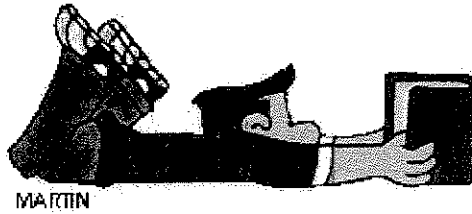
It's not a hammer! What could it be? Write or draw your ideas below.

- List as many ideas as you can!
- Use your sense of humor to come up with off-beat, original responses.

How many ways can you show the number 5?
Use pictures, symbols, numbers, and equations to show your ideas.



Books to Encourage Divergent/Creative Thinking



Benny's Hat, by Linda Wagner Tyler & Dirk Walbrecker

Christina Katerina and the Box, by Patricia Lee Gauch

If You Promise Not to Tell, by Joe Wayman

In the Small, Small Pond, by Denise Fleming

Meggie Moon, by Elizabeth Baguley

Not A Box, by Antoinette Portis

One Mitten, by Kristine O'Connell

That's My Dog, by Rick Walton

The Secret, by Lindsay George Barrett

The Sound of Day, The Sound of Night, by Mary O'Neil

Things That Are Most in the World, by Judi Barrett

Three Pebbles and a Song, by Eileen Spinelli

What's What: A Guessing Game, by Mary Serfoza