

You have the following digits...
7, 5, 2, 4, 6, 3. What is the largest
2-digit number you can make?
What is the smallest 2-digit
number?

What is the largest 2-digit number
you can make with the digits that
are left over? the smallest?

Card 1

Set A

Show your work. Explain with pictures,
words, or numbers.

- How can you use a calculator to help you count by twos backwards from twenty?
- How many ways can you use a calculator to add three fives?
- How can you use a calculator to add two numbers?

Card 2

Set A

Show your work. Explain with pictures, words, or numbers.

Mary likes to dress up her dogs. One wears a hat, one wears a coat, and one wears a scarf. Their names are Spot, Tag, and Barney. Tag loves to wear a scarf. Spot won't wear the coat. Match each dog with what it wears. Explain your thinking.

Card 3

Set A

Show your work. Explain with pictures, words, or numbers.

I have 6 coins worth 51¢. What coins do you think I have? Is there more than one answer?

Card 4

Set A

Show your work. Explain with pictures, words, or numbers.

Five children are playing on the playground. The teacher called the children in for a snack. She had 20 cookies. How many cookies did each child get?

Card 5

Set A

Show your work. Explain with pictures, words, or numbers.

Which is heavier...

- 15 large nails or 12 Unifix cubes?
- 5 large sea shells or 16 small seashells?
- 15 large beans or 5 old keys?
- 8 Unifix cubes or 8 acorns?

Find what will balance...

- a milk carton (filled with water)
- a half cup of beans
- 10 keys
- a dozen nuts

Card 6

Set A

Show your work. Explain with pictures, words, or numbers.

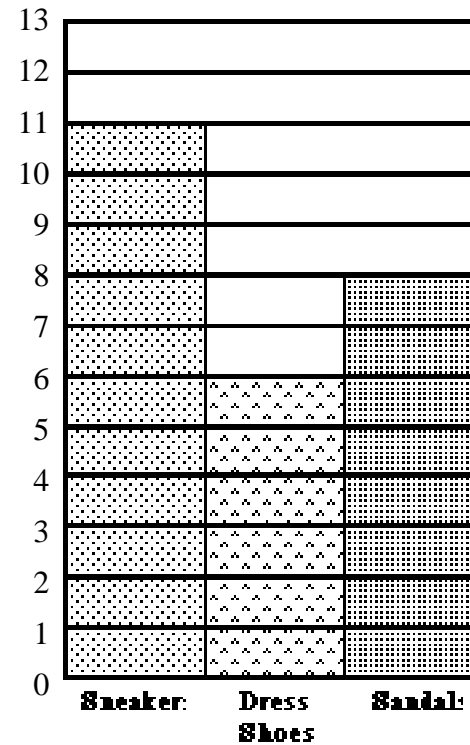
Mr. Brown has opened a shoe store. The graph shows the kinds of shoes he sold the first month. It is time to order shoes for the store. What should he order the most of? the least?

Card 7

Set A

Show your work. Explain with pictures, words, or numbers.

THE SHOE STORE



Beauty is trying to tell the Beast about apples. He knows only about oranges. What would you tell the Beast about ways an orange is like an apple and how they are different. He knows about grapes, but not bananas. Compare grapes and bananas for the Beast.

Card 8

Set A

Show your work. Explain with pictures, words, or numbers.

Faye has 2 nickels and 15 pennies. Her brother has lots of nickels and dimes. Faye trades equal value for different coins. What could she have traded? She trades once more with her mother. What do you think she has now?

Card 9

Set A

Show your work. Explain with pictures, words, or numbers.

This morning you got out your socks and sneakers. You had a pair of blue sneakers and a pair of black sneakers. You had a pair of red socks and a pair of green socks. What different ways could you have worn them?

Card 10

Set A

Show your work. Explain with pictures, words, or numbers.

Our class is working on a program to present to the school. Half the children will stand, half will sit. How can we arrange the children?

Card 11

Set A

Show your work. Explain with pictures, words, or numbers.

Bill is at the zoo. He sees 14 legs. How many storks?
He sees 4 giraffes. How many legs?
Then he sees 8 legs, how many elephants? If he sees 6 zebras, How many legs? Explain your answers.

Card 12

Set A

Show your work. Explain with pictures, words, or numbers.

What is the question?

1. The answer is 2. What is the question?
2. The answer is 5. What is the question?
3. The answer is 10. What is the question?

Card 13

Set A

Show your work. Explain with pictures, words, or numbers.

Kevin has earned 10 stickers for reading books. He can trade the stickers for items in the class store.

- 1 sticker - bookmark
- 2 stickers - eraser
- 3 stickers - pencil
- 4 stickers - notepad

What can Kevin get with his 10 stickers?

Card 14

Set A

Show your work. Explain with pictures, words, or numbers.

Solve these doubles riddles:

1. My double is more than 16.
2. My double is less than 4.
3. My double is between 12 and 16.
4. Double me and get 12.
5. My double has 2 digits. One of them is 4. I am less than 9.
6. My double rhymes with gate.
7. Double me and you will have half of 20.

Card 15

Set A

Show your work. Explain with pictures, words, or numbers.

Jermane said, "I think the number of legs in this room is more than a hundred."

- a. Could this be true? Explain.
- b. How many legs are in this classroom?

Card 16

Set A

Show your work. Explain with pictures, words, or numbers.

If 4 children are sitting at a table,
how many feet are under the table?

If there are 6 children- how many
feet?

Explain how you got your
answers.

Card 17

Set A

Show your work. Explain with pictures,
words, or numbers.

Mom is baking a cake for Erin's birthday party. She needs 8 eggs. She has 6. Grandma gave her 1. How many more does she need?

Card 18

Set A

Show your work. Explain with pictures, words, or numbers.

•How can you use the calculator to find how many twos are in sixteen?

•How can you change twenty into thirty without using the clear key?

•How can you change twelve into eleven without using the clear key?

Card 19

Set A

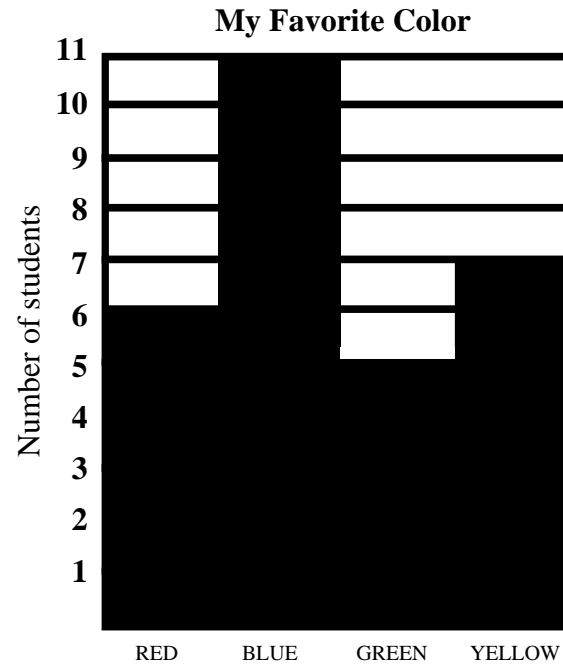
Show your work. Explain with pictures, words, or numbers.

1. What do the numbers on the side of this graph mean? Explain what the colors mean.
2. How many children are in this class?
3. Tell as many things as you can about this graph.

Card 20

Set A

Show your work. Explain with pictures, words, or numbers.



On a farm, a worm came out of his hole. He saw 10 legs. How many chickens and horses did he see?

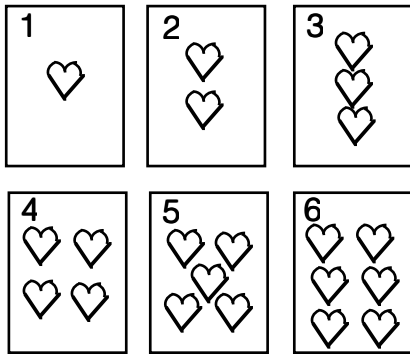
Card 21

Set A

Show your work. Explain with pictures, words, or numbers.

Donna is playing an addition game with her brother. She must find 2 cards that show 7 hearts all together. Here are her cards. Can she go out this turn?

What pairs can she play?



Card 22

Set A

Show your work. Explain with pictures, words, or numbers.

Use red, yellow, brown, green, and blue Unifix cubes and make 5 sticks of different lengths.

Your sticks should have **more than 2 cubes** but **fewer than 20 cubes**.

Now solve these puzzles and tell how many.

1. The difference between yellow and brown.
2. The sum of blue and brown.
3. The difference between green and blue.
4. The sum of red, brown, and blue.
5. Which is longer, red plus yellow or brown plus green?

Write 5 different puzzles for your friend to solve.

Card 23

Set A

Show your work. Explain with pictures, words, or numbers.

Find two things that cost the same amount as a ball. Are there other possible answers?

pencil	5¢
ball	10¢
eraser	3¢
hat	8¢
gum	2¢
candy	7¢

If you have 15¢, what could you buy?

Card 24

Set A

Show your work. Explain with pictures, words, or numbers.

Ten alligators went down to the river. Three of them laid eggs. They laid 5 eggs each. A snake ate 8 eggs. How many eggs are left?

Card 25

Set A

Show your work. Explain with pictures, words, or numbers.

1. I have a leaf.
2. I have a smile.
3. I have a circle nose.

Who am I?

Card 26

Set A

Show your work. Explain with pictures, words, or numbers.



Ned



Jed



Fred



Ted

Four children are lining up for lunch. Their names are Lin, Bill, Jon, and Mary.

Lin is first.

Bill is last.

Mary is behind Lin and in front of Jon.

Who is third in line?

Card 27

Set A

Show your work. Explain with pictures, words, or numbers.

Cover your library book with Unifix cubes. The cubes must touch and cover the entire book. How many cubes did it take? Find someone who used the same number of cubes as you did. Snap your cubes into tens and ones. Find someone who used 10 more or 10 fewer cubes than you did.

Card 28

Set A

Show your work. Explain with pictures, words, or numbers.

Kim is 7 years old.

Marcus is 2 years older than Kim.

Joe is 3 years older than Marcus.

How old are Marcus and Joe?

Card 29

Set A

Show your work. Explain with pictures, words, or numbers.

You have a sphere,
a cube,
a cylinder,
a cone,
a rectangular prism, and
a pyramid.

Which shapes will stack?
Which shapes will roll?
Explain your reasons for each
answer.

Card 30

Set A

Show your work. Explain with pictures,
words, or numbers.

Josef gets 50¢ for allowance each Saturday. On Monday, he bought a pencil for 10¢. On Tuesday, he spent 15¢ on candy.

On Wednesday, he wanted to buy a ball that cost 30¢. Did he have enough money? Explain.

Card 31

Set A

Show your work. Explain with pictures, words, or numbers.

Some students have birthdays in these months: 4 in March, 5 in April, 3 in May, and 1 in June.

Make a graph to show this information.

Use your graph to write questions for the following answers:

1. The answer is 8.
2. The answer is 1.

Card 32

Set A

Show your work. Explain with pictures, words, or numbers.

Use a calendar to answer these questions:

1. Mom goes to the store every Thursday. How many times will she go this month?
2. Dad works every Monday, Tuesday, Wednesday, and Thursday. How many days will he go to work this month?
3. The bowling alley has a *Free Game* night every second and fourth Wednesday nights. What are the dates for the *Free Game* nights this month?

Card 33

Set A

Show your work. Explain with pictures, words, or numbers.

"What's My Name?"

1. I'm greater than 10.
2. I'm an even number.
3. I'm less than 25.
4. When you count by 5's,
you say my name.

Card 34

Set A

Show your work. Explain with pictures,
words, or numbers.

Start at 5. Count on 6 more. What is the number? Count on 2 more. What is the number? Count on 10 more. What is the number? Count on 4 more. What is the number?

Do this again and write your answers at every step.

Now repeat this starting with 15. Repeat again with 25. What do you notice?

Card 35

Set A

Show your work. Explain with pictures, words, or numbers.

Pete has two puppies and 10 puppy treats to give them. How many will each puppy get if Pete passes them out equally?

If Pete doesn't pass them out equally, what are some other ways the treats could be shared?

Card 36

Set A

Show your work. Explain with pictures, words, or numbers.

A dragon blows fire for two hours everyday. How many hours would he blow fire in a school day? in a school week? Explain how you got your answer.

Card 37

Set A

Show your work. Explain with pictures, words, or numbers.

Mrs. Jones was lining up her class to get their pictures taken. Listen to the names she called and find the pattern she used: John, Sarah, Tom, Judy, Bill, Laura. Write the names to show what Mrs. Jones might have said if she helped 10 children from your class line up.

Card 38

Set A

Show your work. Explain with pictures, words, or numbers.

Our worm, Boogie, can crawl three inches in one minute.
How many inches can he crawl in two minutes? five minutes?
How did you figure this out?

Card 39

Set A

Show your work. Explain with pictures, words, or numbers.

A bag of shapes fell behind a chair. When Mom reached behind the chair, she felt two shapes that had no corners. She felt some other shapes that had corners. If there was a total of 26 corners, what shapes do you think she found?

Draw a picture to explain or write about your answer.

Card 40

Set A

Show your work. Explain with pictures, words, or numbers.

Sam has 4 tables for his birthday party. His mother puts the same number of things at each table. He has 16 plates, 8 horns, 4 flowers, and 16 chairs.

Draw the four tables. Then draw the things at each table. How many things are at each table?

Card 41

Set A

Show your work. Explain with pictures, words, or numbers.

Tonya has 4 coins. How much money could she have?

Are there any other possible answers?

Card 42

Set A

Show your work. Explain with pictures, words, or numbers.

Six dinosaurs had a race.
Two dinosaurs tied for second.
Speedy was one of them.
Little T was ahead of Goofy.
Goofy beat Little Dino.
Sleepy came in last. Steggy was
beaten by only one other dinosaur.
Who won the race?

Show the order in which the
dinosaurs crossed the finish line.

Card 43

Set A

Show your work. Explain with pictures,
words, or numbers.

Joe bought 7 green lollipops.

There are 3 fewer yellow lollipops than green lollipops.

There are 2 more red lollipops than yellow lollipops.

How many lollipops are there?
Show how you got your answer.

Card 44

Set A

Show your work. Explain with pictures, words, or numbers.

Judy and Mary are at the fair.

They have ten more minutes before they have to leave. They have three tickets each to ride three rides each. What three rides could they take before they have to leave?

Roller Coaster - 6 minutes

Ferris Wheel - 2 minutes

Bumper Cars - 5 minutes

Swings - 1 minute

Tea Cups - 4 minutes

Merry-Go-Round - 3 minutes

Card 45

Set A

Show your work. Explain with pictures, words, or numbers.

What Time Is It?

- The little hand is on the hour.
- It is an odd number.
- It is between 2 and 4 o'clock.

Write a time puzzle for a friend.

Card 46

Set A

Show your work. Explain with pictures, words, or numbers.

Fold a sheet of paper in half two times. Punch one hole with a hole punch. When you unfold the paper, how many holes will be in it?

Unfold the paper. Were you right? Can you fold a paper so that when you punch one hole, you will have three holes when you unfold the paper?

Card 47

Set A

Show your work. Explain with pictures, words, or numbers.

Use the picture and the clues to find the number.

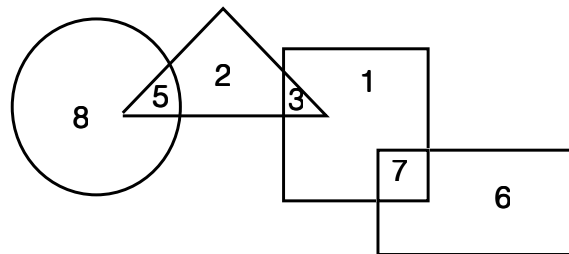
1. I am in the rectangle. I am not in the square.
2. I am in the square. I am not in the triangle or rectangle.
3. I am in the circle and the triangle.

Write two different number riddles.

Card 48

Set A

Show your work. Explain with pictures, words, or numbers.



Farmer Brown and his wife planted vegetables each day for a week. The table shows how many they planted on the first three days.

Day	1	2	3	4	5	6	7
Vegetables Planted	5	10	15				

How many vegetables did they plant by the end of the week?

Card 49

Set A

Show your work. Explain with pictures, words, or numbers.

Will the teacher's desk fit through the classroom door? If we cannot move the desk from where it is, how can we find out? Explain what you need to do step by step.

Card 50

Set A

Show your work. Explain with pictures, words, or numbers.

Betty and Kim went shopping.
Use your calculator to find out
what items they might have
bought.

Hat - \$4 Shoes - \$12 Coat - \$7
Shirt - \$6 Jacket - \$15 Belt - \$2

If you had \$30, what items
would you buy? Would you
have any money left over?
Explain your answers.

Card 51

Set A

Show your work. Explain with pictures,
words, or numbers.

1. Who is 5 years older than Donna?
2. Who is 2 years younger Rod?
3. What is the difference in the girls' ages?

What else can you tell about the children's ages?

Card 52

Set A

Show your work. Explain with pictures, words, or numbers.

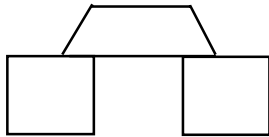
Judy
9 years old

Donna
6 years old

Rod
11 years old

What would the 15th letter be in this pattern?

ABAABAAB...



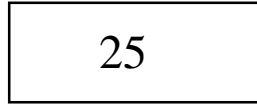
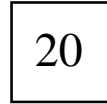
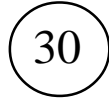
Arches are made with two squares and one trapezoid. If the builders have six trapezoids, how many squares do they need to make arches?

Card 53

Set A

Show your work. Explain with pictures, words, or numbers.

Lilly played the bean bag toss game at the fair.



She could throw 2, 3, or 4 bags at a board with holes in it. Each hole was worth a different number of points. What are some ways to score 65 points to win a prize?

Card 54

Set A

Show your work. Explain with pictures, words, or numbers.

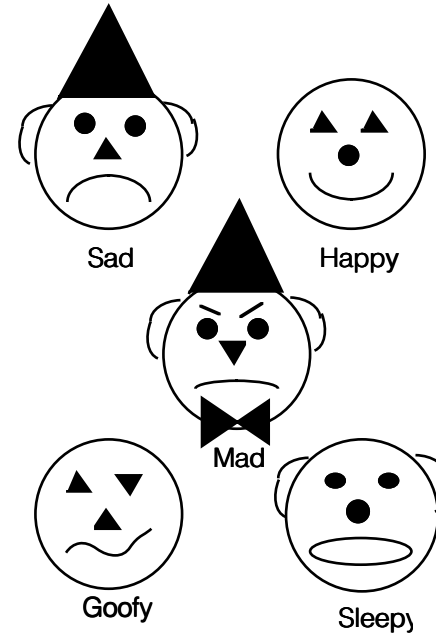
Who Am I?

1. I have ears.
2. My nose is a triangle.
3. I have a hat.
4. I have a bow tie.

Card 55

Set A

Show your work. Explain with pictures, words, or numbers.



Do all snack boxes of raisins have the same number of raisins?

Do all bags of M & M's have the same number of candies?

Do all boxes of teddy bear crackers have the same number of crackers?

Why or why not? Make a plan to prove your ideas.

Card 56

Set A

Show your work. Explain with pictures, words, or numbers.

What are the next three numbers
in this pattern?

77, 66, 55, 44, 33,

_____, _____, _____.

What is the pattern?

3, 8, 13, 18, 23, . . .

What would be the tenth
number in this pattern?

Card 57

Set A

Show your work. Explain with pictures,
words, or numbers.

I have some pennies, nickels,
and dimes in my pocket. I put
three coins in my hand. How
much money do you think
I have in my hand?

Card 58

Set A

Show your work. Explain with pictures,
words, or numbers.

On the way to the park, Tim saw three flowers. Each flower had two leaves. On each leaf was a ladybug. Each ladybug had three spots.

Tim saw ___ flowers.

Tim saw ___ leaves.

Tim saw ___ ladybugs.

Tim saw ___ ladybugs spots.

Draw a picture to show how you found each number.

Card 59

Set A

Show your work. Explain with pictures, words, or numbers.

Draw the next sequence in this pattern.



The song "Old MacDonald" has a pattern. How is that pattern like or different from the hearts and ovals pattern?

Card 60

Set A

Show your work. Explain with pictures, words, or numbers.

The students each had a nickel, a dime, a penny, and a quarter. The teacher said, "Put these coins in order from the smallest to the largest." Students did not agree how to do this. What are two ways they might have ordered the coins? Explain.

Card 61

Set A

Show your work. Explain with pictures, words, or numbers.

Sarah Squirrel hid some nuts for the winter. She sent Sammy Squirrel out to gather them. "How many did you hide?" he asked Sarah. "I hid more than six. I hid less than 9. I hid a number that can be divided between us equally." How many nuts did she hide?

Card 62

Set A

Show your work. Explain with pictures, words, or numbers.

There are four second-grade teachers. Ms. Jolly has a rabbit and a fish.

Mrs. Woo has three hamsters.

Ms. Hunt has eight fish.

Mr. Hill has two rabbits and six birds.

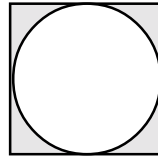
Make a graph to show the pets in the second grade. What are two things you could tell from this graph?

Card 63

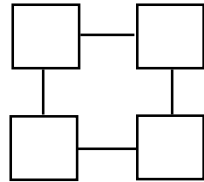
Set A

Show your work. Explain with pictures, words, or numbers.

Look at this picture.
Draw what you will
see if you move
the circle to the left.



Look at this design.



What would you see if
you left off the squares?

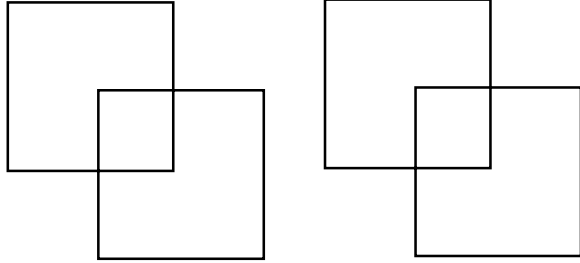
Card 64

Set A

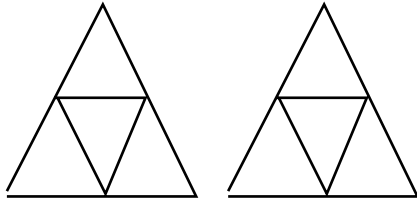
Show your work. Explain with pictures,
words, or numbers.

Draw a triangle inside a circle that is sitting
on a rectangle.

How many squares do you see?



How many triangles do you see?

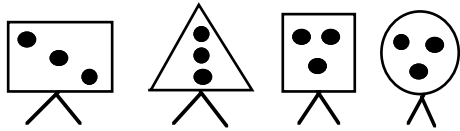


Card 65

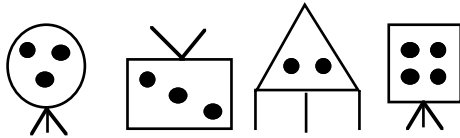
Set A

Show your work. Explain with pictures, words, or numbers.

All of these are waggies.



None of these is a waggie.

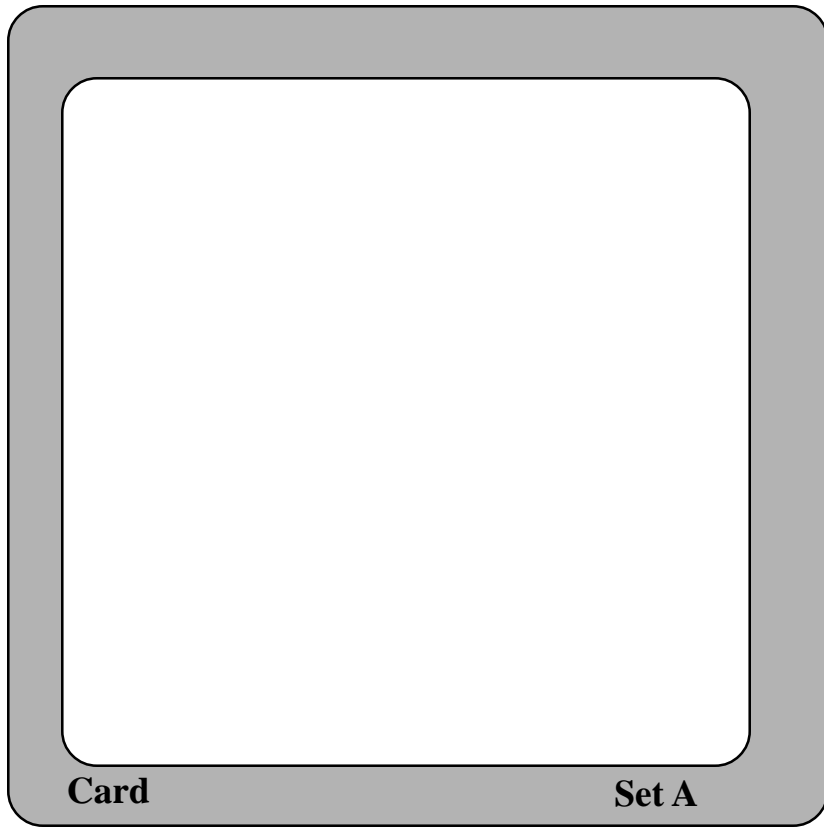


Draw four new waggies.

Card 66

Set A

Show your work. Explain with pictures, words, or numbers.



Show your work. Explain with pictures, words, or numbers.
