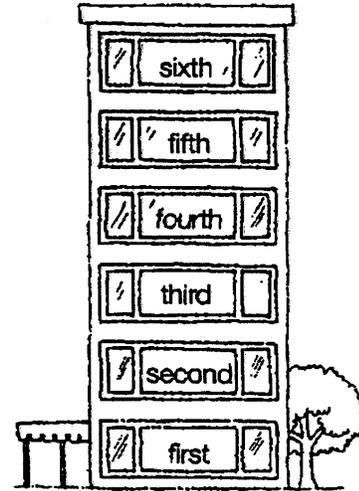


Grade 2 Mathematics CRT

- Jan lives on the top floor.
 Todd lives 3 floors below Jan.
 Sue lives on the bottom floor.
 John lives 4 floors above Sue.
 Eric lives above Todd.
 Gina lives 2 floors below Eric.
 Gina lives on the second floor.

Draw a picture of the building.
 Write the name of the person who lives on each floor.



- What two numbers add up to 10 and also have a difference of 6?

$$\square + \triangle = 10$$

$$\square - \triangle = 6$$

What number is \square ?

What number is \triangle ?

Tell how you decided.

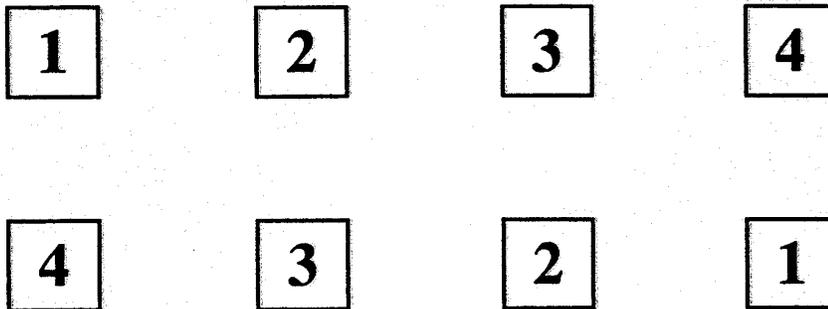
Grade 2 Mathematics CRT

3. Copy the story.
Fill in the shapes with numbers.
The story must make sense.

Rosa hopped times on her left foot.
She hopped times on her right foot.
She hopped more times on her right
foot than her left foot.

Which shape has the greatest number? Why?

4. Show 2 ways to find the sum of all the numbers in the squares.

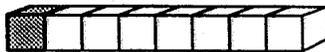


Compare your ways with a classmate.
Tell which way you like best and why.

Grade 2 Mathematics CRT

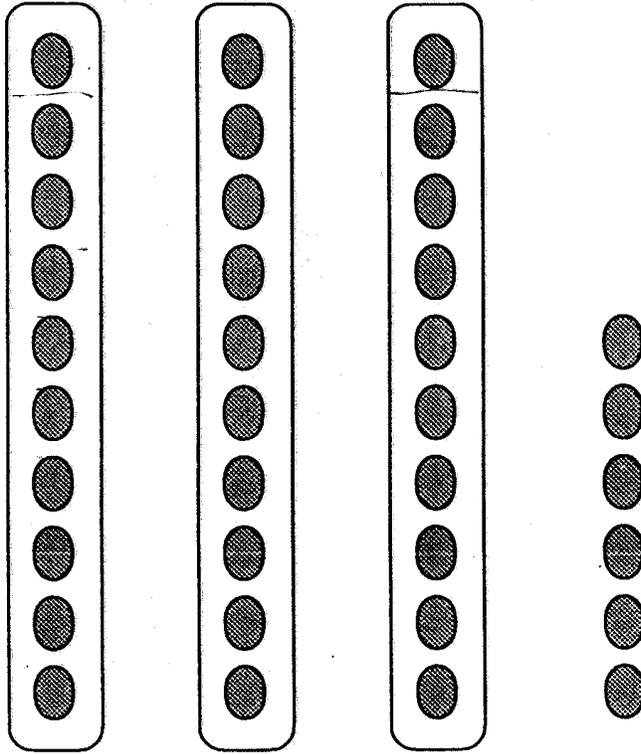
5. Fact Families

Write the fact families.

<p>1. </p> <p><u>7</u> \oplus <u>3</u> \equiv <u>10</u></p> <p>___ \bigcirc ___ \bigcirc ___</p> <p>___ \bigcirc ___ \bigcirc ___</p> <p>___ \bigcirc ___ \bigcirc ___</p>	<p>2. </p> <p>___ \bigcirc ___ \bigcirc ___</p>
<p>3. </p> <p>___ \bigcirc ___ \bigcirc ___</p>	<p>4. </p> <p>___ \bigcirc ___ \bigcirc ___</p>

Grade 2 Mathematics CRT

6.



What number is this? _____

Write it in expanded form. _____

If you add ten to the number, what number would you have? _____

Draw a beanstick picture to show the new number.

Write the new number in expanded form. _____

Grade 2 Mathematics CRT

8. Choose your own number between 30 and 50.

My number is _____.

Use ten-rods and ones to build the number in **as many ways** as you can.

Draw a picture for each way and write a number sentence to go with it.

Record your answers here. Use another piece of paper if needed.

How do you know that you have shown all the possible ways?

Grade 2 Mathematics CRT

9. Which is greater – 27 or 72?

Explain why.

10. Fill in the blanks to show 3 different ways to solve the same problem

$$24 + 33.$$

a. $24 + 33 =$ _____

b. $24 + 33 =$ _____

c. $24 =$ _____
 $+ 33 =$ _____

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

Show 2 different ways to do this problem **32 + 46**.

Grade 2 Mathematics CRT

11. Finish this sample problem.

$$\begin{array}{r}
 54 \longrightarrow 50 + 4 \\
 + 37 \longrightarrow \underline{30 + 7} \\
 \hline
 80 + 11 = \underline{\quad\quad}
 \end{array}$$

Fill in the blanks.

$$\begin{array}{r}
 46 \longrightarrow \underline{40} + \underline{\quad} \\
 + 28 \longrightarrow \underline{\quad} + \underline{8} \\
 \hline
 \underline{\quad} \quad \underline{\quad} = \underline{\quad}
 \end{array}$$

$$\begin{array}{r}
 36 \longrightarrow \underline{\quad} + \underline{\quad} \\
 + 19 \longrightarrow \underline{\quad} + \underline{\quad} \\
 \hline
 \underline{\quad} \quad \underline{\quad} = \underline{\quad}
 \end{array}$$

Grade 2 Mathematics CRT

12. Four cats were sitting on the deck.
Two cats jumped off.
How many cats are on the deck now?

Write the number fact sentence that you would use to solve the problem.

-
- a. Write your own story problem to go with this number sentence.

$$4 + 2 = \underline{\hspace{2cm}}$$

- b. What is the answer to your problem?

Grade 2 Mathematics CRT

13. Erik had 27 picture books.
He gave 12 of the books to Janice.
How many books will Erik keep?

Write a number sentence to solve the problem. _____

-
- a. Complete this number sentence.

$$45 - 23 = \underline{\quad}$$

-
- b. Write a story problem to match the number sentence in problem 2.

Grade 2 Mathematics CRT

14. Alexis has 32 gummy fish.
Jed has 14 of them.
How many more gummy fish does Alexis have?

Write a number sentence to solve the problem. _____

-
- a. Solve the equation.

$$51 - 19 = \underline{\quad}$$

-
- b. Write a story problem to match the number sentence in problem a.

Grade 2 Mathematics CRT

15. Which sticker doll costs the most?

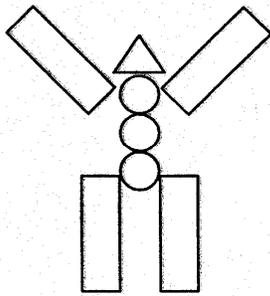
Cost of shape stickers:

○ 1¢

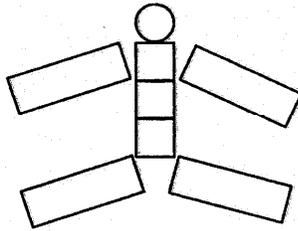
△ 2¢

□ 5¢

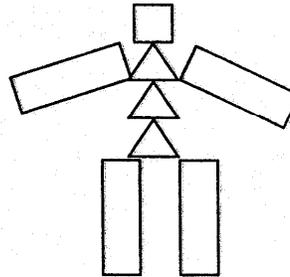
▭ 10¢



A



B

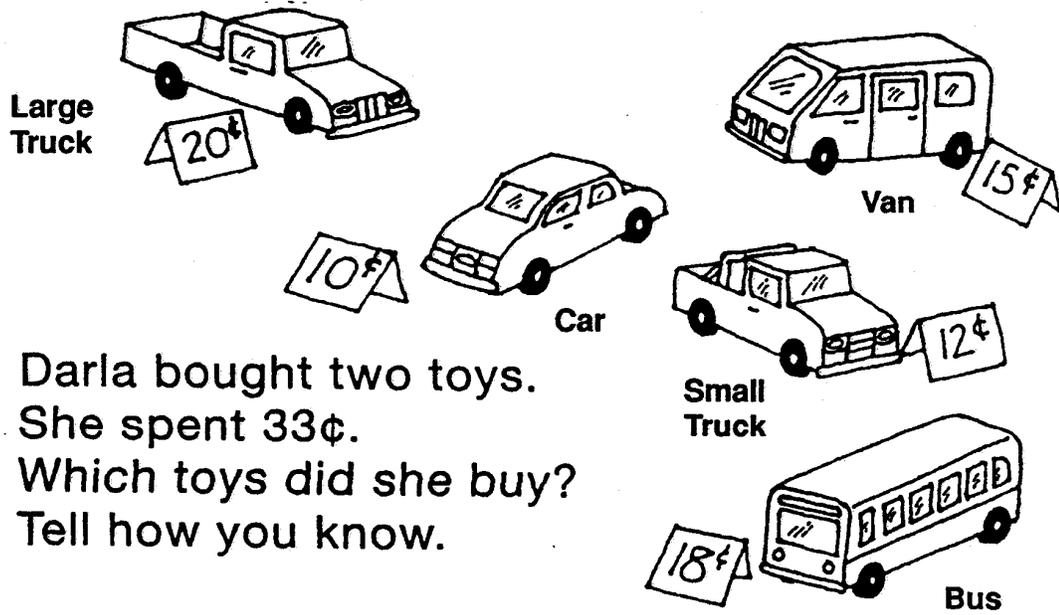


C

Tell how you know.

Grade 2 Mathematics CRT

16.



Large Truck 20¢

Van 15¢

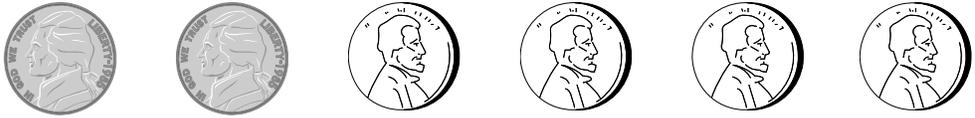
Car 10¢

Small Truck 12¢

Bus 18¢

Darla bought two toys.
She spent 33¢.
Which toys did she buy?
Tell how you know.

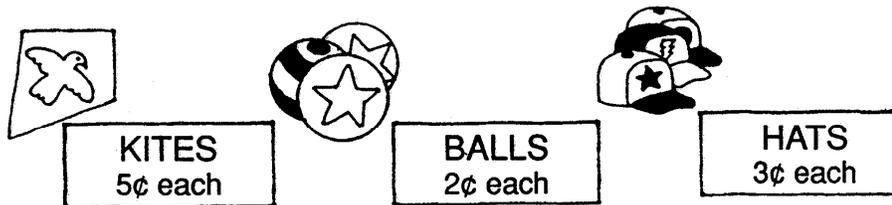
Grade 2 Mathematics CRT

17. Chris had 

Chris bought two things.

Now Chris has 

What do you think Chris bought? _____



If Chris had bought three things, what could he have bought?

18. Fred has 8 nickels.

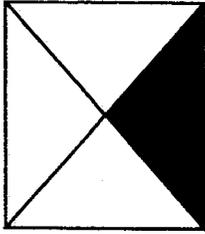
Ted has 7 dimes.

If Ted trades Fred for all the nickels, how many dimes should Ted give Fred?

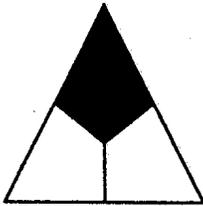
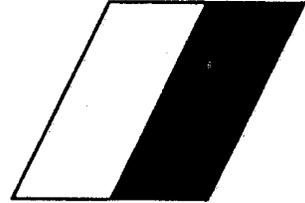
Explain your thinking.

Grade 2 Mathematics CRT

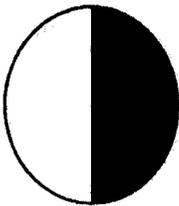
19. Draw lines to match each shaded part with its fraction name.



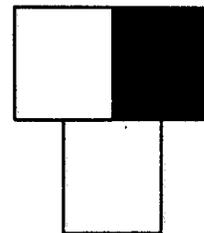
$$\frac{1}{3}$$



$$\frac{1}{2}$$



$$\frac{1}{4}$$



Grade 2 Mathematics CRT

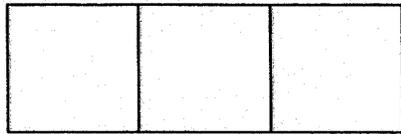
20. Is the shaded part  ?



Explain. _____

a. Label each part of the shape with its fraction name.

Write the matching fraction sentence.



$$\underline{\quad} + \underline{\quad} + \underline{\quad} = 1$$

b. You have 8 balloons.

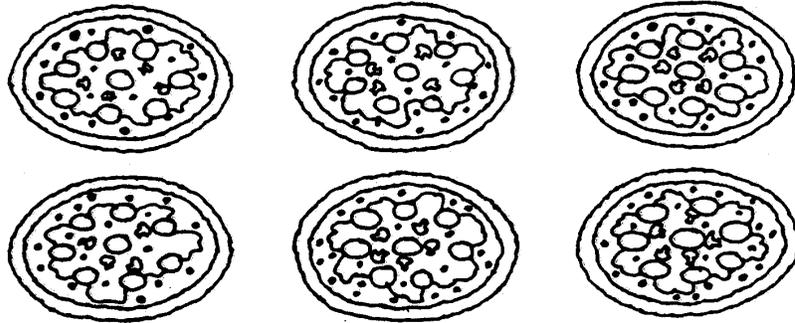
Half of the balloons pop!

How many balloons are left? _____

Draw a picture and use it to solve the problem.

Grade 2 Mathematics CRT

21. Four people want to share these six pizzas.
Give each person the same amount.
Show and tell how you would do this.



Could you do this problem in another way?
Draw 6 more pizzas and show and tell how.

22. Would you rather have one-half of the melon or one-third of the melon? Why?



Why would someone make a different choice?

Grade 2 Mathematics CRT

23. Mr. King bought more than one fruit basket like this one.
 He got 8 apples in all.
 How many oranges, pears,
 and grapes did he get?
 Tell me how you know.



24. How many x's are in
 Row 5?
 Tell how you decided.

Row 1	x x x
Row 2	x x x x x x
Row 3	x x x x x x x x x
Row 4	x x x x x x x x x x
Row 5	x x x x x

Grade 2 Mathematics CRT

25. Fill in the blanks.

a.

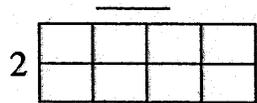


$$\underline{\quad} + \underline{\quad} + \underline{\quad} = \underline{\quad}$$

3 groups of $\underline{\quad}$ = $\underline{\quad}$

$$3 \times \underline{\quad} = \underline{\quad}$$

b.



$$2 \overline{) 10}$$

$$2 \times \underline{\quad} = \underline{\quad}$$

26. Brad put cookie dough on a baking sheet.

He made 4 rows of cookies.

Each row had 5 cookies.

How many cookies did he put on the baking sheet?

Draw a picture of the cookie sheet and use it to solve the problem.

Grade 2 Mathematics CRT

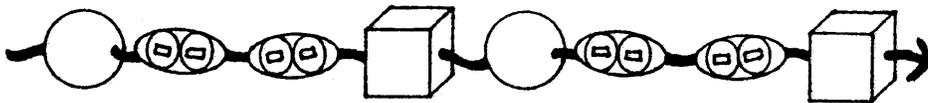
27. Jane made a bread chain.

There are 20 beads in her chain.

Look for her pattern.

How many  are in her bead chain?

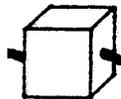
Tell how you know.



beads cost 2¢ each.



beads cost 5¢ each.



beads cost 10¢ each.

How much will Jane spend to make her 20-bead chain?

Grade 2 Mathematics CRT

28. Count and write a number in each empty square.

1	2	3	4
5	6		
9			
13			

a. Describe a pattern going across \longrightarrow .

b. Describe a pattern going down \downarrow .

Grade 2 Mathematics CRT

29. Fill in the blanks to extend the pattern.

0, 3, 6, 9, _____, _____, _____

Write the rule for the pattern. _____

Fill in the T-table.

Dogs	Legs
1	4
2	8
3	12
4	_____
_____	_____
_____	_____

Describe the rules, or patterns, in the T-table.

Grade 2 Mathematics CRT

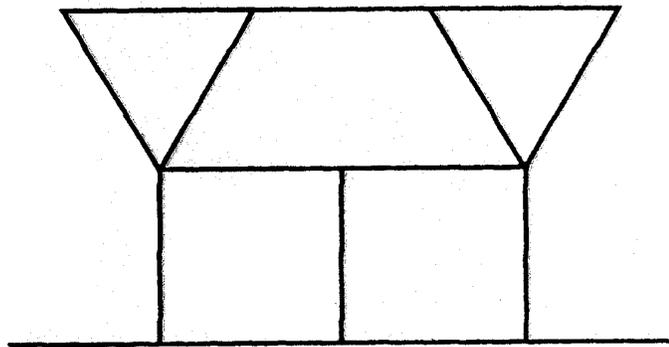
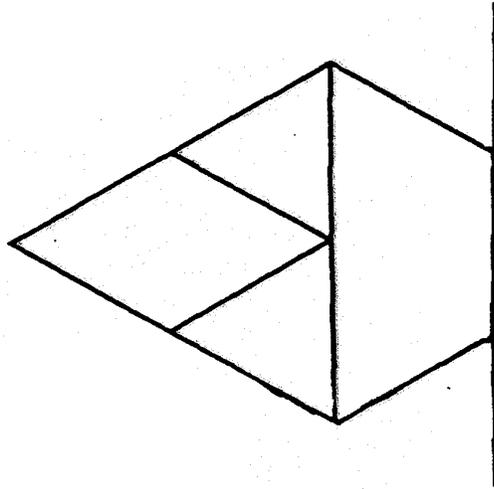
30. Look for the pattern.
Fill in the blanks.

Use the rule to make up your
own.

4	14	13
7	17	16
3	13	12
6	—	15
1	11	—
—	18	17
24	34	33
53	63	—
35	—	44
20	—	—

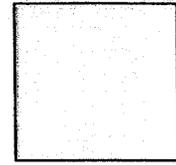
Grade 2 Mathematics CRT

31. Cover the shapes with Pattern Blocks. Build the other half. Use the line of symmetry. Trace each shape. Color.

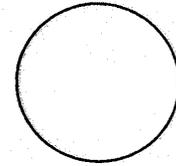


Grade 2 Mathematics CRT

32. Draw a **smaller square** inside the square.

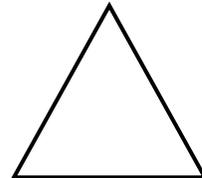
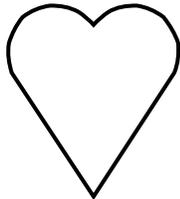


a. Draw a **triangle** inside the circle.

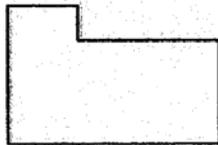


b. Draw a **rectangle**.

c. Draw one or more **lines of symmetry** inside each shape.

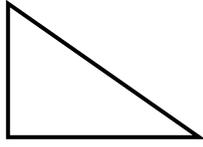


d. Draw a shape **congruent** to this one.



Grade 2 Mathematics CRT

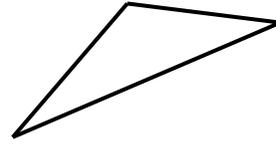
33.



A



B



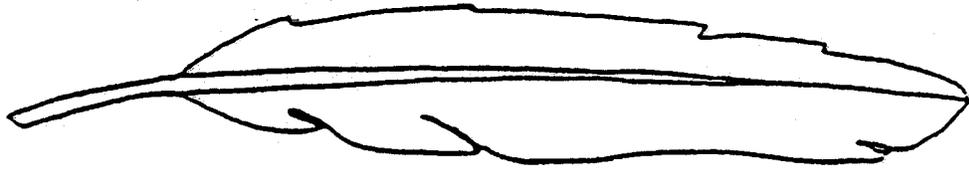
C

a. Andy says that Shapes A and C belong together. Why?

b. Brianna says that shapes A and B belong together.
Explain why she also is correct.

Grade 2 Mathematics CRT

34.



If you measured the feather with centimeters and also measured it with inches, would the measurements be the same, or different? _____

Explain.

Estimate about how many beans long is the feather.  _____

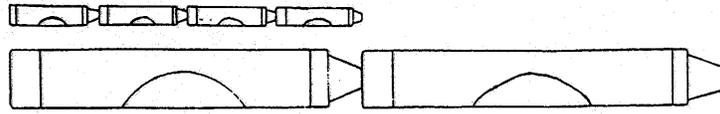
Tell how you made your estimate.

About how many beans would fit inside to cover the rectangle? _____



Grade 2 Mathematics CRT

35.



How many small crayons make one big crayon? _____

How many small crayons make two big crayons _____

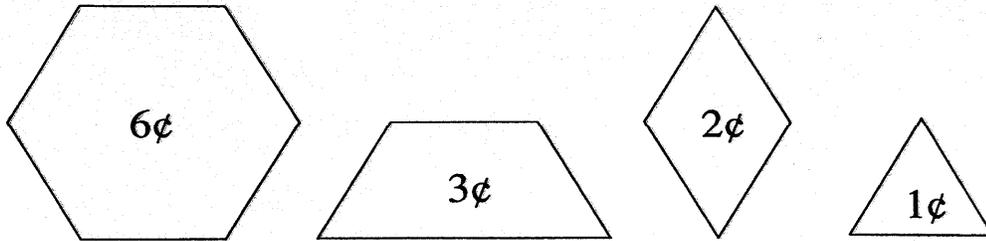
Explain how you found the answer.

Estimate how many small crayons will make **three** big crayons.

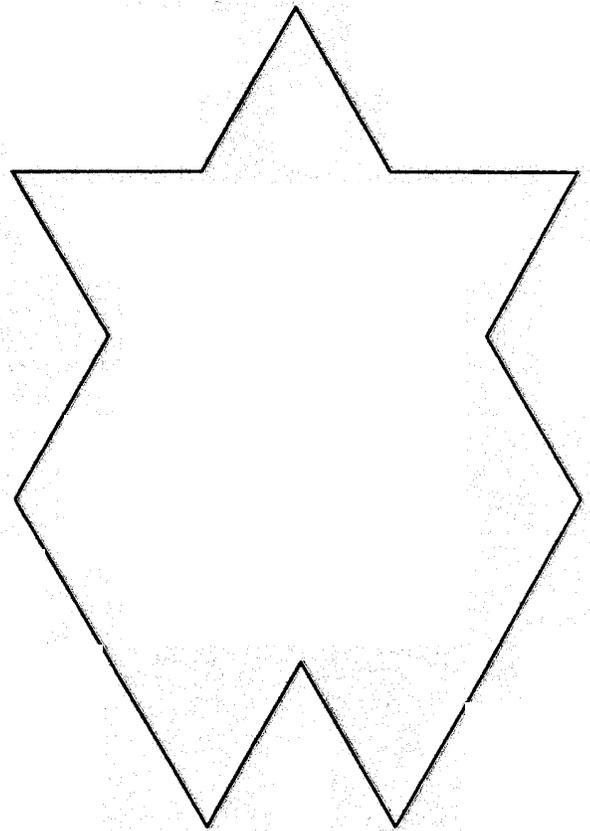
Estimate how many small crayons will make **four** big crayons.

Grade 2 Mathematics CRT

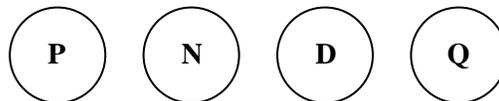
36.



Notice that each pattern block shape has a value.
Explore filling this shape with pattern blocks.

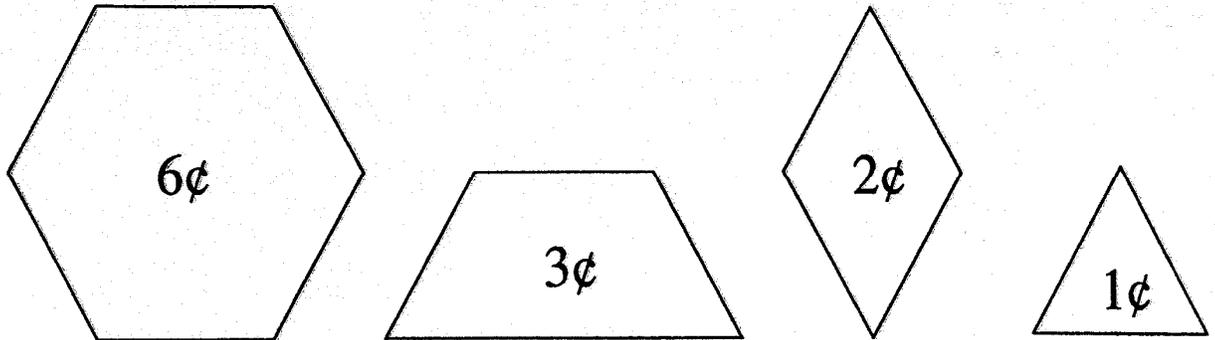


Now find out how much it costs to fill the design.
Show the set with the **fewest** coins that you would need to pay for the shape.
Use drawings like these coins to tell about the amount.



Grade 2 Mathematics CRT

37.

**Design your own shape.**

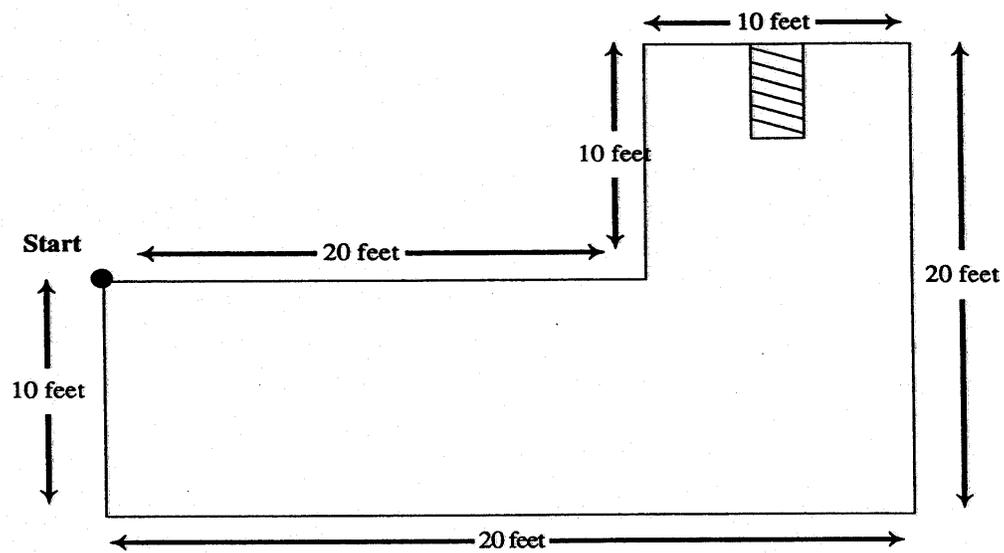
It must cost exactly 25¢. Use real pattern blocks to plan your design.

Then use the pattern blocks to record your design.

Tell how you would convince someone that your shape costs 25¢.

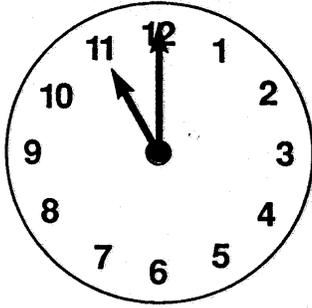
Grade 2 Mathematics CRT

38. Eldridge walked around the perimeter of the swimming and diving pool. How far did he walk?

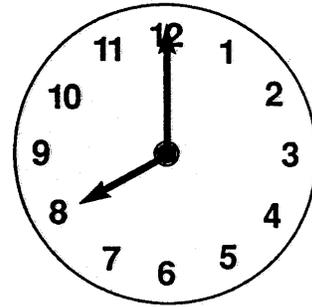


Grade 2 Mathematics CRT

39. Match each clock face to the time.

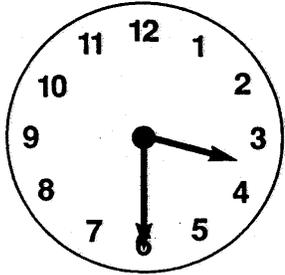


8:00

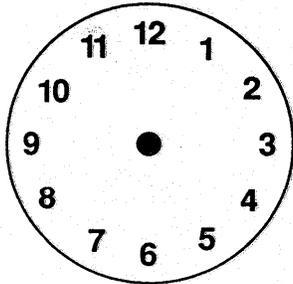


3:30

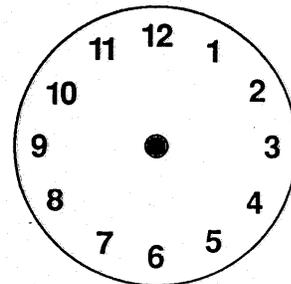
11:00



Draw on the clock face to show the time.



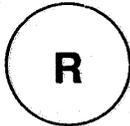
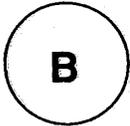
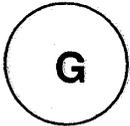
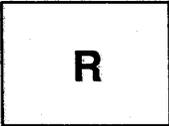
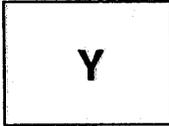
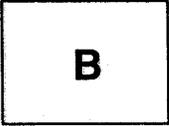
5:00



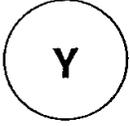
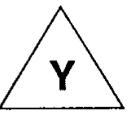
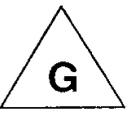
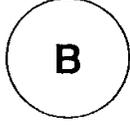
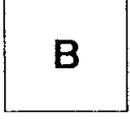
7:30

Grade 2 Mathematics CRT

40. Draw the missing shapes and label them.

Draw in the missing shapes and label them.

Grade 2 Mathematics CRT

41. Colors of Jelly Beans in one bag.

Red	### ///
Green	////
Pink	### /
Yellow	### ///

Tally Marks: / equals one jelly bean.
 ### equals five jelly beans.

a. Use the data in the table to complete a bar graph below.

Red													
Green													
Pink													
Yellow													

Use the graph to answer the questions.

b. Which color is the most? _____

c. Which color is the least? _____

d. How many more pink than green jelly beans are in the bag? _____

e. Write something else about the graph. _____

Grade 2 Mathematics CRT

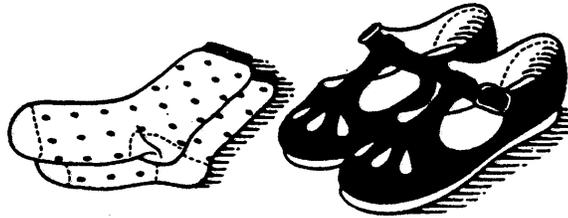
42. SOCK-SHOE SHOP

You have a sock-shoe shop. You sell socks in 4 different colors. You sell 3 types of shoes.

You want to show all the different sock and shoe combinations. How many will there be? What will they look like?

YOU MAY NEED

- ◆ poster board
- ◆ shoes
- ◆ socks



TO GET STARTED

- ◆ Name 4 different colors of socks.
 - ◆ Name 3 different types of shoes.
- Think about all the ways you can match one color sock with 3 different shoes.

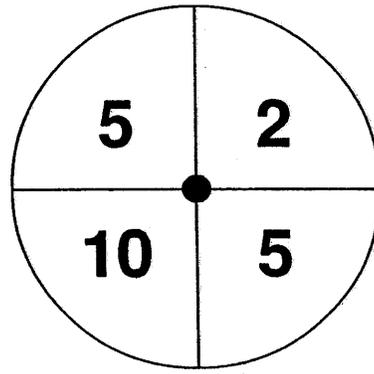
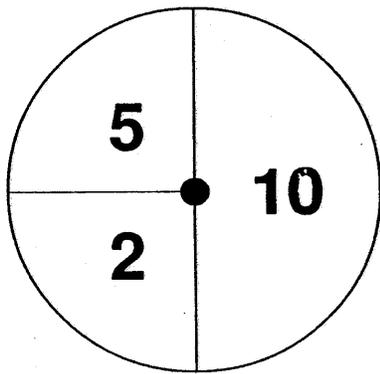
YOUR FINDINGS

Draw the front window of your shop on poster board. Name your shop. Show the different sock and shoe combinations in the window.

Explain how you found all of the different combinations.

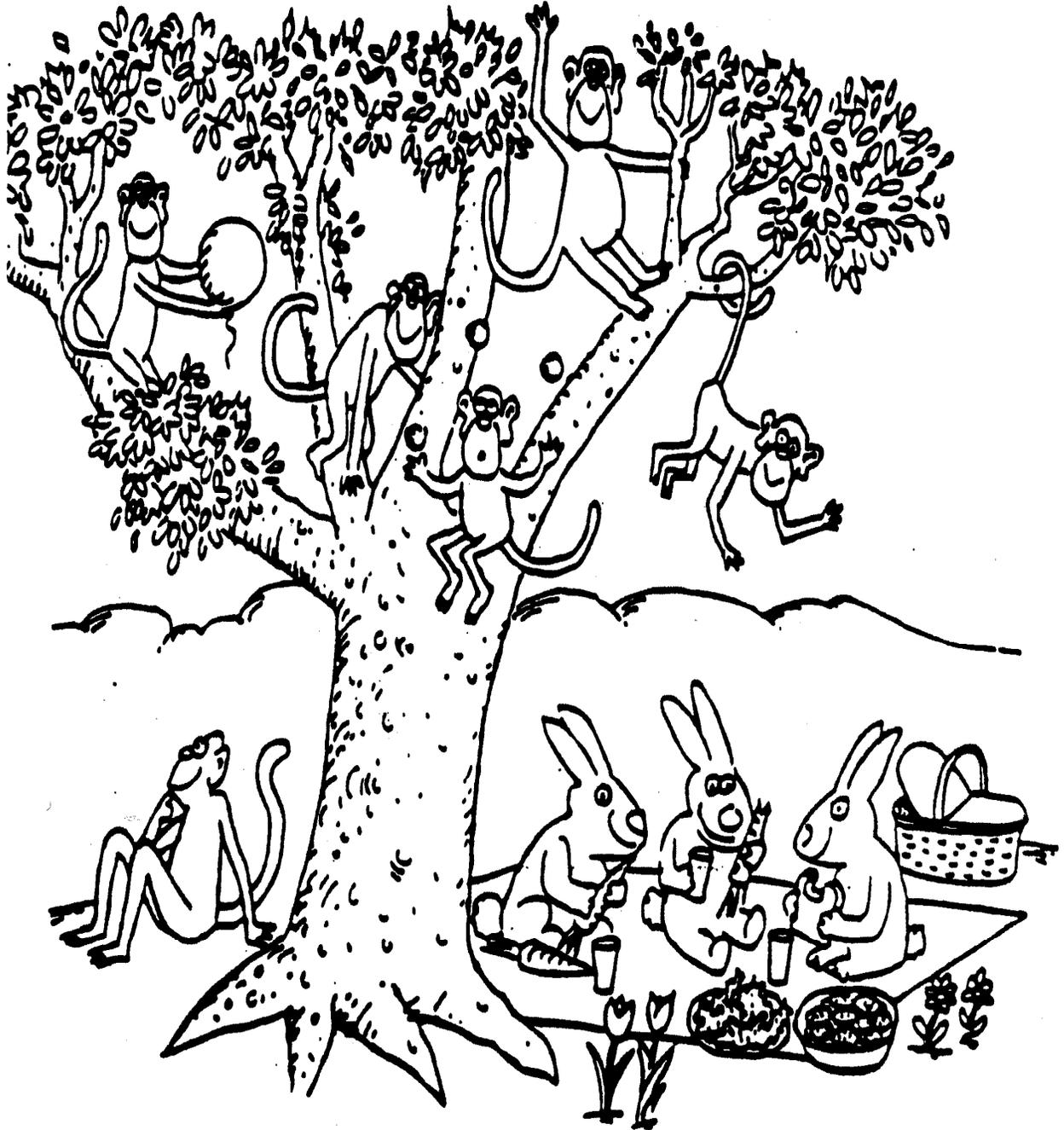
Grade 2 Mathematics CRT

43. You have a choice of Spinner A or Spinner B.
To win, you must land on a 10.
Which spinner would you choose?
Explain why.



Grade 2 Mathematics CRT

44. Use the picture below to answer the questions that follow.

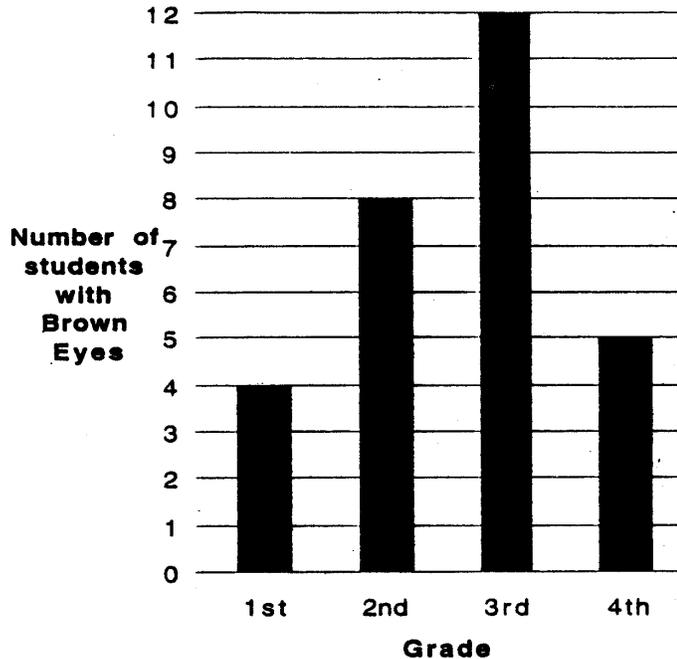


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- a. Circle each monkey. Write how many there are. _____
- b. How many monkeys and bunnies are there? _____
- c. How many more monkeys than bunnies are there? _____
- d. How many bunny ears are there? Write a number sentence to show how you got your answer.

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45. Use the graph below to answer the following questions.



- How many 1st graders have brown eyes? _____
- What grade has the least number of students with brown eyes? _____
- How many more 3rd graders have brown eyes than 2nd graders? _____
- If the 1st and the 4th grades are combined, do they have more children with brown eyes than the 2nd grade? _____

Write how you know. _____

- Write another question that could be answered by the graph. _____

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46. Write the missing number in the blank.

43, 53, _____, 73

a. How did you find the missing number?

b. Write the missing numbers in the blanks.

55, 50, 45, 40, _____, _____, _____

c. How did you find the missing numbers?

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47. Look at the shapes on the next page.

- a. Show how you would sort them into three groups.
Write what the shapes in each group have in common.

48. Mac got a new plant.

In April he counted 5 leaves.

In May there were 10 leaves.

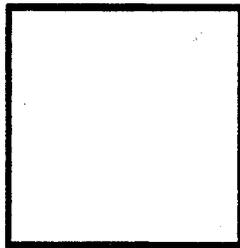
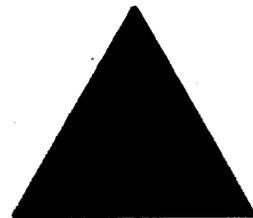
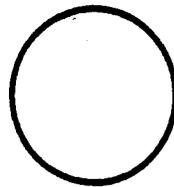
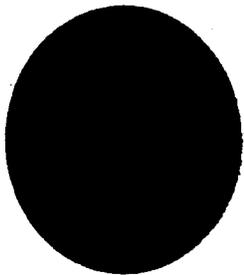
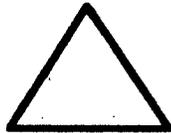
In June he counted 15 leaves.

In July there were 20 leaves.

- a. How many leaves do you think there were in August? _____
- b. Why do you think that? _____

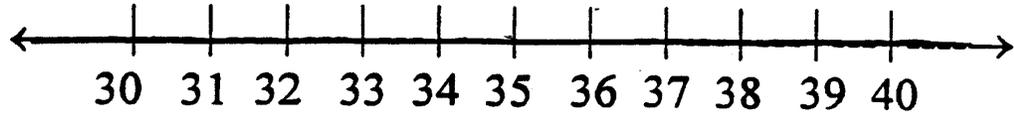
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Shapes for Question 46

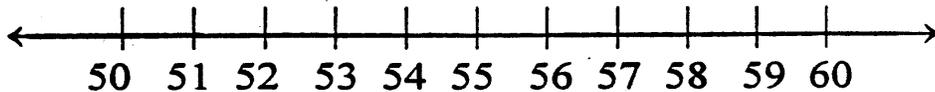


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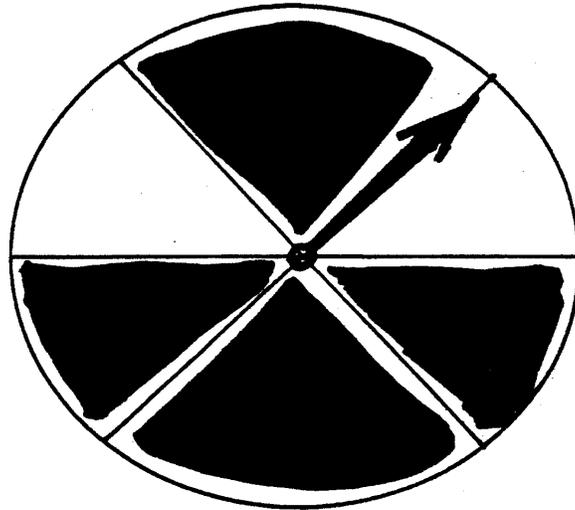
49. Sandy picked 38 carrots. Did she pick about 30 or about 40 carrots? Write how you know.



50. Larry picked 53 tomatoes. Did he pick about 50 or about 60 tomatoes? Write how you know.



51. Suppose you spin the spinner 20 times and record the color, black or white, that comes up each time.



- a. Which color do you think comes up most often, black or white?

- b. Write how you decide. _____

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52. Calvin needs 36¢. He already has 2 dimes and 1 penny. Put an "X" on each coin he could add to get to 36¢.



53. You are the clerk at the school store.
Prices for the store are shown on the sign below.

School Store	
Pencils	5¢ each
Pens	8¢ each
Erasers	10¢ each

a. Complete the following order for a customer.

SCHOOL STORE ORDER FORM		
<u>Number</u>	<u>Item</u>	<u>Cost</u>
1	Pencil	_____ ¢
5	Pens	_____ ¢
2	Erasers	_____ ¢
Total		_____ ¢

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- b. Mike buys 1 pencil, 3 pens, and 1 eraser. How much does he spend? _____
- c. Mike pays with 2 quarters. How much change should he get?
- d. What coins could you give him to make the change? Put an "x" on the coins you would use.



- e. Show two ways a friend of yours could spend exactly 30¢ in the store. What did your friend buy?

First Way _____

Second Way _____

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- f. Show two ways you could spend exactly 26¢ in the store. List what you would buy.

First Way _____

Second Way _____

- g. The store also sells crayons. Your teacher sends you to the store to buy 5 boxes of crayons. What else do you need to know to find out how much 5 boxes will cost?

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54.

ICE TEA

Dawn wanted to earn some money to buy a bathing suit. She made ice tea to sell. Her friend Carl came to buy some. Carl paid 10 cents for his first glass of ice tea and 5 cents for each glass of ice tea after that. Carl drank a total of 15 glasses of ice tea. How much money did Carl pay Dawn for all of the iced tea he drank? Show your work.

55. Eric and Sue have bunnies for pets. The veterinarian told them that each bunny should have one-fourth cup of water and $2\frac{1}{2}$ carrots for dinner.

Eric and Sue have a large barrel of water, but when they looked at the carrot bin they found only 15 carrots. They were able to feed all their pets. How many bunnies do they have?

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56. My mother likes to keep track of how much my baby brother grows from one birthday to the next. He was 26 inches tall on his first birthday. On his second birthday Mom measured him and found he had grown 2 more inches from when he was measured on his first birthday. On his third birthday he had grown 1 inch. On his fourth birthday he had grown 2 more inches. If this continues how many inches will my baby brother have grown by his eighth birthday?
57. A peddler carries 9 caps in a stack on his head. The caps are red, tan, and checked. Each cap costs 6 cents. The peddler is neat and likes to stack the colors that are alike together. What are the ways he can stack his caps? How much money will he make if he sells his 9 caps?